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MEMORANDUM

SUMMARY OF STATISTICAL ICING CLOUD DATA MEASURED OVER UNITED STATES AND NORTH ATLANTIC, PACIFIC, AND ARCTIC OCEANS DURING ROUTINE AIRCRAFT OPERATIONS

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SUMMARY

An extensive program was conducted to obtain icing-cloud statistics needed in aircraft design and operation. The data were collected during routine flights of airline and United States Air Force aircraft. Pressure-sensitive icing meters were installed on 72 service aircraft flown by several different cooperating organizations along domestic and overseas airways and over wide areas of the Pacific and Arctic oceans.

The results of this survey are summarized in tabular form and as frequency distributions of the measured icing-cloud parameters. Distributions are given for cloud liquid-water content, distance traveled in icing, depth of an icing-cloud layer, temperature of icing clouds, and a reference measure of the total ice accretion (thickness) resulting from over-all exposure to the cloud system.

Data were received from 3200 icing-cloud encounters recorded over several icing seasons. Statistical presentation of these data required defining a unit of cloud system length, particularly for conditions of intermittent icing produced by broken clouds. A unit icing encounter, frequently containing several separate periods of icing, was established when a period of no ice accretion exceeded 10 minutes. The distance traveled within icing clouds, when accumulated for an encounter, exceeded 56 miles in 10 percent of the encounters. The distribution of liquid-water content, averaged over short distances (1-min intervals of flight), showed a mean of 0.25 gram per cubic meter with values under 0.6 gram per cubic meter existing 90 percent of the time. These cloud water contents were about two-thirds of those calculated from adiabatic lifting theory using the measured cloud depths and temperature data. The distribution of icing temperatures showed that clouds colder than -20° C existed in 10 percent of the encounters.

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INTRODUCTION

A weather problem of concern in the design and operation of most aircraft and certain missiles is the icing of components in supercooled clouds. Because of the highly variable characteristics of these clouds, a large accumulation of cloud data is needed for guidance in the design of optimum icing-protection systems and the efficient operation of aircraft in icing areas. Statistical values that represent the meteorlogical and climatic variations, which are associated with icing, will indicate what to expect in normal flight operations. An adequate sampling of the atmosphere will establish for the manufacturer and operator such pertinent values as the average and extremes of icing that can be encountered.

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Protective designs and operating criteria have been based mainly on cloud measurements taken during research or test flights planned to penetrate icing clouds (ref. 1). Data from these selected flights represent a somewhat limited sample of the clouds and, further, a slightly biased result. The data were confined generally to localized areas within the United States. Effects of latitude, topography, or different seasons are not well established in the results. Relative frequencies of the occurrence of icing were not determined. The variable severity of icing as measured was perhaps biased, since the flights were conducted under selected weather conditions.

A program to collect extensive icing-cloud data from routine or scheduled flights has been conducted by the NACA Lewis laboratory (now NASA Lewis Research Center) for several icing seasons. Service aircraft of several airline companies and of the United States Air Force were equipped with icing meters supplied by the NACA to collect the data. Appreciation is extended to the many organizations that cooperated in assembling and reporting the data for this survey. The limited quantity of special instrumentation was distributed among different organizations and aircraft types in a manner to ensure as wide a range of areas, altitudes, and operating practices as possible in the results. Airline aircraft collected data from airways within the United States as well as from the North Atlantic route to Europe and the North Pacific air route to Japan via Alaska. Large areas of the Pacific and Arctic oceans were surveyed by Air Force weather reconnaissance aircraft. Interim reports published during this program (refs. 2 and 3) presented most of the data from scheduled airline flights over the United States. A statistical study of icing probabilities over ocean areas was reported in reference 4, in which meteorological observations from weather reconnaissance aircraft permitted a detailed study of the relative frequency of occurrence of icing and the estimated probability of flight in icing.

The data reported herein were taken for the main purpose of evaluating the severity of icing that may be expected rather than the frequency

of occurrence of icing clouds, as covered in reference 4. For most applications, the significant parameters of icing severity are the liquid-water content and the temperature of the supercooled clouds. Other variables include the extent of icing-cloud systems in the line of flight and the droplet sizes. Data assembled during the program (excluding that published in interim reports, i.e., refs. 2 and 3) are presented as frequency distributions of these parameters, except droplet sizes, which were not measured. The complete data from all participating organizations are arranged in tabular form to facilitate any detailed studies beyond the scope of this report. The amount of ice accretion in terms of the forward buildup of ice on a small object during the traverse of an icing-cloud system is also presented. Liquid-water contents that can exist in icing clouds as a direct result of the physical process of cloud formation were calculated for comparison with the measured values. The resulting relation serves to evaluate the measurements and to indicate a method whereby water-content frequencies may be determined for particular cloud types, areas, or for other influential factors not sufficiently sampled in the data.

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APPARATUS AND PROCEDURE

Icing-Rate Meter

Instrumentation for measuring the concentration of supercooled water in icing clouds was developed specifically for the statistical program at the NACA Lewis laboratory. A relatively simple instrument capable of automatically recording icing when it was encountered was considered necessary to assure reliable data with minimum attention on the part of field personnel. A pressure-sensitive system using airstream total pressure for detecting and measuring ice accretions was designed into equipment suitable for installations in various aircraft. The instrument (described in ref. 5) measured the rate at which ice formed on a small tube (0.1-in. diam.). The icing rate was used to calculate the water content based on calibration of the instrument in icing conditions during wind-tunnel and flight tests.

A schematic diagram given in figure 1 shows how the total-pressure system was made sensitive to ice accretions. Tiny holes (0.016-in. diam.) in the leading edge of the small ice-sensing tube pick up total pressure, which is balanced in a differential pressure switch against an equivalent total pressure usually obtained from the conventional total-pressure system in the aircraft. A small amount of air is allowed to flow in the ice-sensing side of the switch by connecting this side to a lower pressure (usually static) through a very small orifice. As ice forms around the holes in the ice-sensing probe, the pressure decreases as a result of the reduced inlet area of the holes. The differential pressure set up across

the switch Δp is allowed to build up until a fixed value (8 in. of water) is reached, at which time an electrical heater in the probe unit it actuated. This melts the ice from the holes, restoring the pressure. The resulting drop in Δp deenergizes the heater. Ice again forms and the cycle is repeated. The point at which Δp actuates the switch corresponds to a certain ice thickness I (in inches) on the ice-sensing probe. The rate of ice accretion R in inches per hour can then be determined from the relation

$$R = 60\left(\frac{I}{t}\right) \tag{1}$$

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where t is the time (in minutes) required for ice to accumulate to thickness I. (All symbols are defined in appendix A.)

In practice only the icing time t can be recorded; thus the icing rate must be calculated from a predetermined value of ice thickness. Calibration studies showed that this thickness varied somewhat over a wide range of icing and airstream conditions. As a result, only a rather coarse measure of icing rate and corresponding water content was possible. Details of the calibration studies and limitations of the instrument are given in appendix B.

The thickness of ice on the probe is a function of the water content w, distance traveled in icing D, collection efficiency of the probe E, and density of the ice on the probe ρ_I expressed as

$$I = 0.0634\left(\frac{wDE}{\rho_I}\right)$$

The water content can then be determined from

$$w = 15.8\left(\frac{I}{D}\right)\left(\frac{\rho_I}{E}\right)$$

or

$$w = 15.8\left(\frac{R}{V}\right)\left(\frac{\rho_I}{E}\right) \tag{2}$$

By assuming the ratio ρ_I/E as unity for all conditions, the calculated water content has shown reasonably good agreement when compared with other methods of measuring water content. This is discussed further in appendix B.

Installation and Operation of Meters on Aircraft

The ice-sensing probe was mounted on the fuselage of the instrumented aircraft with pressure and electrical lines running to a flight recorder located in the cabin, as shown in figure 2. The system was operated in a standby condition. The initial accumulation of ice actuated the recorder, which ran during the icing and for 10 minutes after the icing had ceased. This operation was completely automatic and could be observed by indicating lights in the cockpit. Separate channels recorded the icing time of the probe and the airspeed and altitude on photographic film. The existing total- and static-pressure systems in the aircraft were generally used for the airspeed and altitude traces. Frequent replacement of the film magazines required that the recorder be mounted in a convenient location in the aircraft.

The location of the probe on the fuselage was based on considerations of airflow and accessibility for ease of installation. The installations were as far forward on the aircraft as possible and in areas where damage during ground operations would be avoided. Compromises were necessary to approach these requirements. Of particular concern was the possibility of placing the sensing tube in a region where the concentrations of cloud droplets are modified by their trajectories around the fuselage. Depending upon the fuselage location, the probe length of 7 inches could place the tube where water concentrations would be either larger or smaller than free-stream conditions. The probe location was chosen whenever possible to avoid these effects, although exact amounts could not be calculated. A typical installation is shown in figure 3. The engineering and fabrication of the installations by each participating organization greatly helped in expediting the program.

Handling of Data

The statistical study required that the film records be supplemented with information such as time, temperature, geographical location, and effects of the ice on the aircraft. The flight crews were requested to take down these data on the special flight logs which were supplied with the icing meters. A sample icing log is shown in figure 4. Correlation of the film records with the crew observations was accomplished with a digital counter connected to the recorder and located in the cockpit.

The cooperating organizations sent the exposed film and log sheets to the Lewis laboratory for processing. Replacement film magazines were kept on hand at appropriate airline terminals and Air Force bases. In processing, each film record was assigned an identification number. The individual icing occurrences were numbered in sequence as they appeared on the film and were also associated with the observed data from the log

sheets. Icing time, indicated airspeed, and pressure altitude were read directly from the traces. Derived quantities included the rate of icing using equation (1), true airspeed using temperature and altitude, and water content using equation (2) along with the corresponding airspeed. These quantities were then calculated as average values for 1-minute intervals starting at the beginning of an icing record. Pertinent items were punched on cards to make use of the convenience of machine methods in analyzing the large quantity of assembled data.

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DATA ANALYSIS

The discontinuous nature of many of the cloud systems was apparent in the icing meter records and required establishment of a somewhat arbitrary unit of length for a given system. Statistical values of many of the icing parameters were derived from measurements taken within these units of cloud length.

A period of continuing ice buildup resulting from an unbroken icing cloud in the line of flight could not be definitely established because of the inherent limitations in the operation of the meters. Such a condition of ice accretion was assumed to exist if the sensing probe cycled at least once within each 1-minute interval during a sequence of 1-minute intervals of film record. Actual voids in a cloud separated these icing periods by variable distances. To conserve film and to provide for automatic operation, a reasonable limit in the time separation between periods of indicated icing had to be established. This limit was set at 10 minutes, at which time the recorder stopped. The breaks in the film record restricted the measured voids in the clouds to distances ranging between 20 and 60 miles, depending on airspeed. Thus, the full extent of some of the icing cloud systems may not have been measured. Each unbroken film record was called an icing encounter. For purposes of statistical analysis, then, this encounter unit defined the cloud-system length for which the measured icing parameters were associated.

RESULTS AND DISCUSSION

Air Routes and Areas Covered in Survey

The approximate location of the air routes and areas over which the icing-cloud data were collected are indicated on a northern hemisphere map in figure 5. Data from United States and overseas airways were received mostly from the airline companies that participated. Icing encountered over ocean areas was reported from weather reconnaissance flights made by the U. S. Air Force squadrons operated by the Air Weather Service. These flights were conducted daily along prescribed tracks

ranging up to 2400 miles in length. Table I lists the separate air routes and areas, the corresponding organizations that contributed data, and the types of aircraft that were instrumented. A total of 72 icing-meter installations were proportioned among the various organizations to obtain as complete a coverage as possible.

Tabulation of Data

The observed and derived icing-cloud data (excluding that published in interim reports, i.e., refs. 2 and 3) are assembled in table II. Information is tabulated in this form to facilitate any detailed studies beyond the scope of this report. Each horizontal line of the table contains the following items for a particular icing encounter: (1) date and local time, (2) location, (3) icing severity (horizontal extent and liquid-water concentration), (4) nature of icing (rate, total accretion, type, etc.), (5) relevant meteorological conditions (temperature, cloud type, etc.) and (6) factors concerning aircraft operation during the encounter. An explanation of the code used in table II is given in appendix C. There is a lack of information for some encounters because the icing-meter records and flight crew observations could not be correlated or because the observations were not complete. Many of the qualitative or descriptive items were coded to allow machine methods of tabulating and analyzing the data. The icing encounters in the table are grouped together for each organization that supplied the data and are chronologically ordered within each group.

Frequency Distributions of Icing Parameters

Frequency distribution of liquid-water content. - One of the significant parameters of icing severity is the concentration of liquid water in the supercooled clouds. The variation of water concentrations within the icing clouds was determined from the icing-meter records using equation (2). Frequency distributions of these measurements including all the data of table II are given in figure 6, in which are plotted two distributions of water content in class intervals of 0.1 gram per cubic meter based on meter readings averaged over 1-minute intervals and also averaged over the complete encounter. (Only the latter are listed in table II.) The results are based on 7722 1-minute averages measured in 1300 icing encounters. Both the mean and the mode of each of the distributions are approximately the same, being 0.25 g/cu m and 0.15 g/cu m, respectively. The short-period averages, as compared with the averages for the entire encounter, show somewhat greater frequencies of higher water concentrations. These results point out that, because of the highly variable water concentrations contained within the microstructure of icing

clouds, high concentrations over short distances exist more frequently than would be indicated from over-all averages.

The distribution of 1-minute average water concentrations is also plotted in cumulative form in figure 7. In this type of graph a particular value of a given variable is plotted against the fraction of the total number of measurements in which this value is exceeded. This fraction represents the frequency in which a specified value is exceeded and can be interpreted as the probability of encountering values greater than that amount. In this manner the probability of the higher water contents can be better estimated. A straight-line relation on a semilog grid was drawn through the data points. The meter readings that fall above the line in the region between 0.4 and 0.7 gram per cubic meter and those that fall below the line beyond 0.7 gram per cubic meter can be interpreted as resulting from the operating characteristics of the sensing probe, as discussed in appendix B. The relation of this probability distribution to a calculated value shown as a dashed line is discussed in a following section. The measured probabilities indicate that water concentrations averaged over 1-minute intervals would be experienced approximately as follows:

(1) 0.3 Gram per cubic meter exceeded in approximately 33 percent of the intervals

(2) 0.6 Gram per cubic meter exceeded in 10 percent of the intervals

(3) 1.1 Grams per cubic meter exceeded in 1 percent of the intervals

These results are lower than preliminary values published in an interim report (ref. 3). The data presently reported are considered more reliable because they are based on a larger sampling of data, and on improved installation and operation of the icing meter. A comparison of the data from this program with values from multicylinder measurements taken earlier (ref. 1) shows that higher water contents (>0.5 g/cu m) averaged over short distances exist somewhat more frequently than was previously indicated.

Frequency distribution of distance flown in an icing-cloud system. - The distance flown within an icing condition depends on the horizontal and vertical extent of a given icing-cloud system and the direction of the flight path. This distance is another parameter of significance in evaluating icing severity, since it determines the amount of ice accumulated for a given collection rate and the required operating period of ice-protection equipment. Because of the 10-minute limit placed on recording large voids in the clouds, the air distances that were measured by the meters for icing encounters do not necessarily represent the complete horizontal or vertical development of icing-cloud systems. Also, changes in flight direction may have resulted in entering or emerging

from the clouds at some point other than the beginning or end of the cloud system. In other encounters the measured distance may have been longer than the extent of a cloud system because of circling or otherwise extending the distance flown within icing-cloud area.

A frequency distribution of the net distance flown within icing clouds during 1300 icing encounters is presented in figure 8. Voids in broken-cloud formations were omitted in the measurements. As pointed out previously, these voids were not well defined in the records and, therefore, a flight was assumed to be clear of icing clouds when ice buildup was not indicated by at least 1 cycle of the meter probe for every 1-minute interval of meter record. The data include all phases of operations, such as horizontal flight, climb, descent, approach, and so on. A cumulative form of the distribution is shown (fig. 8), which indicates the probability of exceeding various distances while flying in an icing encounter during any phase of routine aircraft operations. Selected values from the distribution curve are:

(1) 26 Miles exceeded in approximately 33 percent of the encounters

(2) 53 Miles exceeded in 10 percent of the encounters

(3) 120 Miles exceeded in 1 percent of the encounters

Frequency distribution of depth of an icing cloud layer. - Data that indicated that icing had occurred during climb or descent were used to give an indication of the depth or vertical extent of icing-cloud layers. This information is of interest in evaluating the severity of icing during vertical traverses through cloud layers that would be encountered during the operation of high-altitude aircraft or missiles. The cloud depths are not well established from the data because of flight path changes and meter limitations, as mentioned previously. The existence of an unbroken cloud layer was assumed when at least 1 cycle per 1-minute interval of meter record was maintained during a continuous change of altitude.

A frequency distribution of the indicated depths of 194 icing-cloud layers is presented in figure 9 in which a cumulative form of the distribution is shown from which some selected values are:

(1) 1500 Feet exceeded in approximately 33 percent of the cloud layers

(2) 2700 Feet exceeded in 10 percent of the cloud layers

(3) 4700 Feet exceeded in 1 percent of the cloud layers

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Frequency distribution of reference ice accretion. - The amount of ice accretion (thickness) on an aircraft component after traversing an icing-cloud system is a function of the liquid-water content of the clouds, the distance traveled in the clouds, and the ratio E/ρ_I for the component, as discussed in a previous section. Combining the water concentration and the extent of the icing clouds provides an indication of the relative severity of icing conditions, particularly for unprotected components on which a limited ice accumulation may be tolerated. A measure of the amount of ice accretion for a given encounter was determined from the icing-meter readings using the ice-sensing probe as a reference component. Because of its small size the probe represents an aircraft component on which the greatest rate of ice accumulation would exist. Lower rates would be expected on larger components. The ice accretion that would have formed on an object similar to the probe was obtained by summing up the 1-minute, average accretions measured on the probe for the complete encounter. A frequency distribution of this reference ice thickness for 1300 icing-cloud systems is given in figure 10. The following selected results are given by a cumulative form of the distribution:

(1) 0.35 Inch exceeded in approximately 33 percent of the cloud systems

(2) 0.85 Inch exceeded in 10 percent of the cloud systems

(3) 2.3 Inches exceeded in 1 percent of the cloud systems

Frequency distribution of temperature in icing clouds. - The outside air temperatures existing during the icing encounters were read from conventional aircraft thermometers. Because of unknown effects of kinetic heating, heat of fusion, and so on, on these thermometers, corrected temperatures were difficult to determine. As an approximate correction, 2° C were subtracted from the indicated values to establish the distribution curve of figure 11. Correction of the individual indicated readings given in table II may give a somewhat different distribution. Some values from figure 11 indicate that icing-cloud temperatures exist approximately as follows:

(1) Temperatures colder than -12° C in approximately 33 percent of the icing clouds

(2) Temperatures colder than -20° C in 10 percent of the icing clouds

(3) Temperatures colder than -32° C in 1 percent of the icing clouds

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Calculated Liquid-Water Content Probability Distribution

The probability of experiencing high liquid-water contents in icing clouds is of primary interest in evaluating the icing problem. The limited precision of the icing meter for measuring high water concentration, particularly at temperatures close to freezing, has restricted the reliability of the results shown in figure 7. An evaluation of these results was attempted by calculating what could be expected for water contents as derived from other measured icing-cloud parameters and by assuming adiabatic lifting. This method of estimating water content frequencies can also be applied to particular areas, cloud types, or other icing environments in which adequate water-content measurements have not been made.

Water concentrations that are a direct result of the physical process of cloud formations were calculated by considering the amount of water vapor condensed by adiabatic cooling of saturated rising air. On this basis, water contents increase with height above the cloud base and with temperature at the cloud base. A probability distribution of liquid-water content was obtained from these relations using the measured frequency distributions of icing cloud depths (fig. 9) and temperatures (fig. 11). The calculation procedure is given in appendix D.

The calculated probability of liquid-water content is shown as a dashed line in figure 7. The values form an approximately straight line on a semilog grid. These results were used as a guide in establishing the relation for the measured points, which appeared to be about two-thirds of the calculated values. The actual water concentration in the clouds would be expected to be less than the full adiabatic amount because of precipitation forming and falling out of the clouds and also because of the entrainment and mixing of dry air from outside the clouds. Thus, considering the comparison of the measured values with the calculated probabilities, the probabilities of liquid-water content, as shown by the solid line, appear reasonably sound up to approximately 0.8 gram per cubic meter.

SUMMARY OF RESULTS

An extensive program of collecting icing-cloud data with instrumented airline and U. S. Air Force aircraft during routine flights has provided the following results:

1. Icing-cloud systems contained voids of varying length which resulted in separated periods of continuous ice buildup within a given system. For convenience, voids in the clouds exceeding 10 minutes of flight were not measured. This limitation defined a unit of cloud-system length called an icing encounter. Statistical values of many of

the icing parameters were based on measurements taken within this unit of icing-cloud length.

2. A total of 3200 icing encounters were recorded by the cooperative organizations along airways within the United States, across the North Atlantic, along the Pacific air route to Alaska and Japan, and over wide areas of the Pacific and Arctic oceans.

3. The following statistics were derived from frequency distributions of the measured icing parameters:

(a) Liquid-water content (averaged over 1-minute intervals of ice buildup):

(1) 0.3 Gram per cubic meter exceeded in approximately 33 percent of intervals

(2) 0.6 Gram per cubic meter exceeded in 10 percent of intervals

(3) 1.1 Grams per cubic meter exceeded in 1 percent of intervals

(b) Distance traveled within icing clouds (cumulative distance in icing throughout an encounter):

(1) 26 Miles exceeded in approximately 33 percent of icing encounters

(2) 53 Miles exceeded in 10 percent of icing encounters

(3) 120 Miles exceeded in 1 percent of icing encounters

(c) Depth of an icing-cloud layer:

(1) 1500 Feet exceeded in approximately 33 percent of icing-cloud layers

(2) 2700 Feet exceeded in 10 percent of icing-cloud layers

(3) 4700 Feet exceeded in 1 percent of icing-cloud layers

(d) Reference ice accretion (cumulative ice thickness on ice-sensing probe following icing encounter):

(1) 0.35 Inch exceeded in approximately 33 percent of icing encounters

(2) 0.85 Inch exceeded in 10 percent of icing encounters

(3) 2.3 Inches exceeded in 1 percent of icing encounters

(e) Temperature within icing clouds:

(1) Colder than -12° C in approximately 33 percent of icing encounters

(2) Colder than -20° C in 10 percent of icing encounters

(3) Colder than -32° C in 1 percent of icing encounters

4. The frequency distribution of liquid-water content showed a mean of 0.25 gram per cubic meter and a mode of 0.15 gram per cubic meter. The water contents of this distribution were about two-thirds of those derived from a distribution calculated from adiabatic lifting theory and a statistical procedure using the measured cloud-depth and temperature distributions.

Lewis Research Center
National Aeronautics and Space Administration
Cleveland, Ohio, October 22, 1958

APPENDIX A

SYMBOLS

D	distance traveled in clouds in which ice buildup was continuous, miles
E	collection efficiency, dimensionless
H	depth of icing clouds, ft
H_i	midpoint of class interval in frequency distribution of H
h	height of aircraft above cloud base, ft
h_i	midpoint of class interval in frequency distribution of h
I	thickness of ice on ice-sensing probe, in.
i	midpoint of class interval taken in frequency distribution
n	number of class intervals taken in a frequency distribution
P(H)	probability of occurrence of given H
$P(H_i)$	probability of occurrence of i^{th} class interval in frequency distribution of H
$P_a(H_i)$	probability of occurrence of i^{th} class interval in frequency distribution of H adjusted for horizontal flight at random altitudes
P(h)	probability of aircraft flying at given h
$P(h_i)$	probability of aircraft flying in i^{th} class interval in frequency distribution of h
$P_H(h)$	probability of aircraft flying at given h conditioned on probability of occurrence of H equal to or greater than h
$P(\Delta w)$	probability of occurrence of Δw
$P_{h_i}(\Delta w)$	probability of occurrence of Δw for given h_i
Δp	differential pressure created by ice accretion acting on total-pressure system of icing meter, in. of water

R	rate of ice accretion on ice-sensing probe, in./hr
t	time required for ice to accumulate to thickness I on ice-sensing probe, min
V	true airspeed of aircraft, mph
w	liquid-water content, g/cu m
w_a	average liquid-water content over given distance in icing, g/cu m
Δw	increment of liquid-water content in frequency distribution of w
X_Z	saturation mixing ratio at altitude Z in clouds, g(water vapor)/kg(dry air)
X_{Z_b}	saturation mixing ratio at altitude of cloud base, g(water vapor)/kg(dry air)
Z	pressure altitude of aircraft in icing clouds, ft
Z_b	altitude of cloud base, ft
ρ_I	density of ice on ice-sensing probe, g/cc
ρ_Z	density of dry air at altitude Z in clouds, kg/cu m

APPENDIX B

CALIBRATION OF ICING METERS

The purpose of the icing-meter calibration was to establish a measure of the icing rate and the corresponding liquid-water content as indicated by the icing time of the sensing probe. This was accomplished by measuring the ice thickness on the probe as controlled by the fixed pressure drop Δp and by comparing with other methods and techniques of measuring icing rate and water content. The instrument precision was governed by the accuracy of the calibration and the inherent limitations in assuming a predetermined ice thickness for a fixed Δp under variable icing and airstream conditions. These studies were conducted in the Lewis icing research tunnel and in flight under natural icing conditions.

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The fixed pressure drop of 8 inches of water produced an ice buildup of about 0.024 inch on the leading edge of the probe. Measuring this small accretion without disturbing the operation required a visual technique using an optical system with adequate magnification. As the ice formed, this setup in the icing research tunnel measured the increased diameter of the probe by means of a lens system and calibrated scale. The measurements were recorded on film with a camera that was triggered at the instant Δp reached the fixed value. The corresponding icing time was recorded on the same photograph. Ice thickness was measured within ± 0.002 inch and icing time within ± 0.005 minute.

These studies showed that the ice thickness required to achieve a fixed Δp depends essentially on the physical characteristics of the ice formations. The Δp is created by the reduced inlet area around the total-pressure holes as the ice builds up. When this reduced area reaches a certain amount, the fixed Δp is achieved. The open space, in the ice buildup ahead of each hole in the probe can be considered similar to a truncated cone with an altitude equal to the ice thickness. Although the reduced area at the outer edge of the ice may be a constant for a fixed Δp at a given airspeed, the resulting ice thickness can vary depending on the cone angle formed by the ice buildup. Thus, the ice thickness becomes a function of variables which influence the shape and size of ice formations. These are temperature, droplet size, impingement rate, and mixed clouds (water in the frozen and liquid states).

The relation of ice thickness to these variables, as well as the repetition of the instrument under constant operation conditions, was evaluated in the icing research tunnel studies. Ranges of the variables studied were:

Airspeed, mph	180 to 280
Temperature, ^{o}C	-18 to 0
Icing rate, in./hr	4 to 8
Drop size, microns (Langmuir "D" distribution, ref. 6)	10 to 20 (approx.)

Changes in the ice structure parameters within this range of conditions produced a maximum variation of ice thickness of ±0.008 inch. It was found that under constant conditions the ice thickness would repeat within ±0.003 inch.

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The precision of the recorded data from the program depended largely upon knowing the values of the ice structure parameters at the time of the icing encounter. All parameters except droplet size could be measured. Knowing the other parameters, the percentage error in the calculated icing rate determined from the recorded icing time was estimated to be about ±15 percent. Disregarding the effects of the parameters and considering a mean value of ice thickness (0.024 in.) would give an icing rate with a maximum deviation of ±30 percent.

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The operation of the icing meter was most seriously affected when a so-called runoff condition occurred. This condition, which affects all ice-collecting instruments, is defined as a surface effect where the impinging water fails to freeze immediately because the surface temperature has been elevated to the freezing point by the latent heat of fusion. The extent to which this occurs depends on the heat balance on the surface, which is a function primarily of the impingement rate, droplet size, air temperature, airspeed, and altitude. If these conditions are such that the surface temperature remains below freezing, the ice continues to build up. When the surface approaches the freezing point, however, less ice will form and the excess water runs along the surface and may freeze back of the leading edge or may blow off. The icing-meter probe is especially sensitive to this condition in that the liquid water on the surface acts to plug the holes with a smaller than normal ice thickness and in an erratic fashion. This situation is illustrated in figure 12 where a given icing rate is maintained while the air temperature is brought up toward the freezing point. The ratio of the indicated icing rate to an icing rate corresponding to the water impingement rate is plotted against air temperature. The indicated rate is a calculated value assuming a constant ice thickness for the indicated icing times. The data points of figure 12 show that during runoff this rate can approach values 50 percent higher than the icing rate prior to runoff. The readings are erratic, which makes any correction factors difficult to determine. As the temperature nears the freezing point the indicated accretion rate becomes less than the original rate. In this condition very little ice forms, and most of the impinging water runs around the tube and blows off. Thus, an increased icing time is required to obtain

a fixed Δp giving a lower indicated icing rate. The interrelation of air temperature, icing rate, and airspeed, which initiates the runoff condition on the sensing probe, is shown in figure 13. These relations were determined from the icing research tunnel studies and were used to establish regions of reliable operation for the icing meters.

In calculating the water content from the icing rate, values of ice density ρ_I and collection efficiency E must be either known or assumed. The small diameter of the sensing probe is known to provide a high collection efficiency (85 to 95 percent) for the normal range of icing and airstream conditions. Under most conditions the ice density can be assumed to approach the maximum for solid ice (0.91 g/cc). Thus, if the proper units factor is applied, the ratio ρ_I/E can be taken as unity.

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In order to evaluate these assumptions, calculated water contents from the icing rate indications were compared with two other methods of measuring water content, rotating multicylinders (described in ref. 6) and an aeroscope (described in ref. 7). The multicylinder method is based on the principle that cylinders of different sizes collect different quantities of ice per unit frontal area, whereas the aeroscope collects and measures the individual cloud droplets though an oil medium and photographic technique. For the comparison studies these units were mounted in the proximity of two ice-sensing probes in an aircraft installation. Simultaneous exposures to natural icing clouds were made with all instruments. The results are shown in figure 14 as separate comparisons of the icing meters with each method. Each data point in the figure represents a reading of water content indicated by each instrument averaged over the exposure distance of a multicylinder sample (4 to 14 miles). The points scatter about the lines for a ratio of 1 in both comparisons. The icing-meter readings averaged slightly greater than those of the multicylinders (mean line 0.01 g/cu m below the ratio line of 1) with an average deviation from the mean of 0.03 gram per cubic meter. Somewhat less agreement was found between the icing meters and the aeroscope with the meter readings averaging slightly less than those of the aeroscope (mean line 0.03 g/cu m above the ratio line of 1) and with an average deviation from the mean of 0.05 gram per cubic meter. The accuracy of water contents calculated from the icing meter indications cannot be easily evaluated from these comparisons, since the measurement errors in the other methods are not well established. These studies show that reasonably good agreement exists between icing-meter indications and those of two other methods of measuring water content in icing clouds.

APPENDIX C

INTERPRETATION OF NOTATION OF TABLE II

This appendix explains the individual headings and the data code that are used in table II.

Organization. - The airline company or United States Air Force squadron which supplied the data are tabulated in the following code:

01	American Airlines
02	Eastern Airlines
03	Northeast Airlines
04	Northwest Orient Airlines
05	Pan American (PAD) Airlines
06	Pan American (AD) Airlines
07	Pan American (LAD) Airlines
08	United Airlines
09	Trans World Airlines
23	Trans Canada Airlines
13	USAF 55th Weather Recon. Sqdn (AWS)
14	USAF 56th Weather Recon. Sqdn (AWS)
15	USAF 57th Weather Recon. Sqdn (AWS)
16	USAF 58th Weather Recon. Sqdn (AWS)
17	USAF 28th Strategic Recon. Wing. (SAC)

Date and time. - The date and local time of each icing encounter are tabulated as follows:

t_y Year, last figure of years 1952 through 1955 is used.

t_m Month, figures 1 to 12 refer to January through December.

t_d Day, figures 1 to 31 refer to days of the month.

$t_G t_G t_g t_g$ Local time, figures 00 to 24 at the left denote hours and 00 to 59 at the right, minutes.

N Encounter number, sequence of the encounters as recorded on a given film magazine or reported by the flight crews.

Location. - The reported location of each icing encounter is tabulated as follows:

O Octant of globe, tabulated in the following code:

	Longitude	Hemisphere
0	0° to 90° W	Northern
1	90° W to 180°	Northern
2	180° to 90° E	Northern
3	90° E to 0°	Northern
4	Not used	
5	0° to 90° W	Southern
6	90° W to 180°	Southern
7	180° to 90° E	Southern
8	90° E to 0°	Southern
9	Not used	

L_aL_a Latitude, figures include tens and units of degrees.

L_oL_o Longitude, figures include tens and units of degrees in each octant.

L Relative to environment, the reported attitude of the aircraft or surrounding flight conditions at the time of icing are tabulated in the following code:

1	climb following takeoff
2	descent for landing
3	in and out of cloud tops
4	climb during flight
5	descent during flight
6	between cloud layers
7	in frontal weather
8	passing through squall
9	in clouds

FFFFF Airline flight number, figures are as assigned by the airline for a given schedule.

Altitude. - The pressure altitude and altitude change (standard atm) for each icing encounter in tens of thousands, thousands, and hundreds of feet as recorded by the icing meters are tabulated as follows:

$Z_1Z_1Z_1$ Start of icing, pressure height of aircraft at beginning of icing encounter.

$Z_2Z_2Z_2$ End of icing, pressure height of aircraft at point where ice buildup ceases prior to 10-minute period when recorder was not operating. This item in conjunction with item Z_1 established whether icing was encountered in horizontal flight or in climb or descent. An altitude difference between Z_1 and Z_2 can be used for an indication of the thickness or depth of an icing-cloud layer.

$Z_3Z_3Z_3$ End of encounter, pressure height of aircraft at point where recorder stopped. This item in conjunction with item Z_2 shows in some cases altitude changes in which no additional icing clouds were encountered and thus indicates to a limited extent the vertical separation of icing-cloud layers.

Flight distance. - The distances flown in each icing encounter as recorded by the icing meters and/or reported by the crews are tabulated as follows:

DDD Continuous icing, cumulative air distance flown in hundreds, tens, and units of statute miles within icing clouds derived from icing-meter records by assuming that continuous ice buildup occurred if at least 1 cycle in the sensing probe per 1-minute interval was maintained. The cumulative distance omits the distances traveled when less than 1 cycle per 1-minute interval was recorded as the flight progressed.

$D_eD_eD_e$ Complete encounter, air distance flown in hundreds, tens, and units of statute miles during period of icing encounter as determined from icing-meter records.

$t_et_et_e$ Crew estimate, extent of icing in hundreds, tens, and units of minutes as estimated by the flight crew.

$t_it_it_i$ Continuous icing, same as D with extent of icing clouds in hundreds, tens, and units of minutes.

Liquid-water content. - The cloud liquid-water concentration in units, tenths, and hundredths of grams per cubic meter derived from icing-meter records using equation (2) are tabulated for each icing encounter as follows:

$w_aw_aw_a$ Average, a value for the complete encounter calculated as an average of 1 minute intervals which are, in turn, an average of individual readings. Only the 1-minute intervals in which at least 1 cycle of the sensing probe occurred were included.

$w_mw_mw_m$ Maximum, the largest 1-minute interval average that occurred during the icing encounter.

Nature of icing. - A description of the icing includes several items which were recorded by the icing meters and reported by the flight crews for each encounter. These are tabulated as follows:

$R_aR_aR_a$ Average rate of accretion, the average rate of ice buildup on the ice-sensing probe during the complete encounter in tens, units,

and tenths of inches per hour derived from icing meter records using equation (1). The average is calculated from a 1-minute interval similar to w_a.

$R_mR_mR_m$ Maximum rate of accretion, the largest 1-minute interval average in tens, units, and tenths of inches per hour that occurred during the encounter derived from icing-meter records using equation (1).

$I_tI_tI_t$ Total ice accretion, a reference measure of the thickness of ice in units, tenths, and hundreths of an inch that would have formed on a small object by the end of the encounter. This was obtained by summing up the 1-minute average accretion rates for all the 1-minute intervals of the complete encounter.

I_s Severity, qualitative estimate of the severity of the icing as reported by the flight crews tabulated in the following code:

1	intermittent
2	slight trace
3	very light
4	light
5	moderate
6	moderate to heavy
7	heavy
8	severe (very heavy)
9	light to moderate

I_d Type, a description of the type of ice and associated environment as reported by the flight crews tabulated in the following code (code from ref. 8):

1	rime ice in clouds
2	clear ice in clouds
3	combination of rime and clear ice in clouds
4	rime ice in precipitation
5	clear ice in precipitation
6	combination of rime and clear ice in precipitation
7	frost (icing in clear air)

I_n Number of incidents, an incident was defined as a period of continuous accretion if at least 1-cycle per minute of the sensing probe was maintained. The number of incidents of continuous ice buildup within each encounter was used as a measure of the discontinuous nature of the icing clouds.

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Meteorological conditions. - The atmospheric environment associated with each icing encounter, as reported by the flight crews, includes several meteorological factors, which are tabulated as follows:

TT Temperature, the indicated temperature of the icing clouds reported in tens and units of degrees centigrade as read from conventional aircraft thermometers. Negative temperatures were coded by adding 50 to the reading, disregarding the sign. The tabulated values are not corrected for kinetic heating, heat of fusion, or other effects.

C Cloud type, a description of the type of clouds associated with each icing encounter tabulated in the following code (code from ref. 8):

0	cirrus
1	cirrocumulus
2	cirrostratus
3	altocumulus
4	altostratus
5	nimbostratus
6	stratocumulus
7	stratus or fractostratus
8	cumulus or fractocumulus
9	cumulonimbus

B Turbulence, a description of the turbulence associated with each icing encounter tabulated in the following code (code from ref. 8):

0	none
1	light turbulence
2	moderate turbulence in clear air, infrequent
3	moderate turbulence in clear air, frequent
4	moderate turbulence in clouds, infrequent
5	moderate turbulence in clouds, frequent
6	severe turbulence in clear air, infrequent
7	severe turbulence in clear air, frequent
8	severe turbulence in clouds, infrequent
9	severe turbulence in clouds, frequent

SS Present weather, a general description of the weather existing during the icing encounter tabulated in the following two-digit code (code from ref. 8):

Left digit

0	clear (no clouds at any level)
1	partly cloudy (scattered or broken)
2	continuous layer(s) of clouds
3	sandstorm, duststorm, or storm of drifting snow
4	fog, thick dust, or haze
5	drizzle
6	rain
7	snow, or rain and mixture
8	shower(s)
9	thunderstorm(s)

Right digit

0	none
1	light intermittent
2	light continuous
3	moderate intermittent
4	moderate continuous
5	heavy intermittent
6	heavy continuous
7	with rain
8	with snow
9	with hail

Aircraft. - The type of aircraft and factors concerning its operation during the encounter as reported by the flight crews are tabulated as follows:

A_tA_t Type, the aircraft designation tabulated in the following code:

1	DC-3
2	CV-240
3	DC-6 and DC-6B
4	B-377
5	L-1049
6	DC-4M
7	DC-4
21	WB-29
22	RB-36

VVV Airspeed, the average true airspeed during the icing encounter in hundreds, tens, and units of miles per hour calculated from the icing meter records or as reported by the flight crews.

V_e Airspeed effects, the approximate losses of airspeed in miles per hour as a result of the ice accretions tabulated in the following code:

0	none
1	vibration only
2	up to 5 mph
3	up to 10 mph
4	10 to 15 mph
5	15 to 20 mph
6	20 to 25 mph
7	25 to 30 mph
8	over 30 mph
9	Pitot system iced

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A Affected components, the aircraft components particularly noted as having ice buildup tabulated in the following code:

0	none
1	wings (leading edge)
2	wings (with runback)
3	fuselage
4	antenna masts
5	spinners
6	propellers
7	windshield
8	cowling
9	various components

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A_d Ice protection, the particular de-icing or anti-icing equipment used during the encounter tabulated in the following code:

0	none
1	for propellers only
2	wings and tail (boots or thermal anti-icing)
3	thermal anti-icing
4	Pitot heat only
5	all de-icing equipment
6	carburetor heat only
7	thermal anti-icing including propellers
8	yes
9	wings (boots) and propellers (alcohol)

APPENDIX D

CALCULATION OF LIQUID-WATER CONTENT PROBABILITIES IN ICING CLOUDS

The concentration of liquid-water w at altitude Z above a cloud base Z_b resulting from adiabatically lifted saturated air is given in terms of the saturation mixing ratio X by the following equation (ref. 9):

$$w = \rho_Z(X_{Z_b} - X_Z) \tag{D1}$$

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This results in a nearly linear increase of water content with height above the cloud base. Since the saturation mixing ratio increases with temperature, the water content at any point above the base increases with increasing temperature at the cloud base. Therefore, the water content available for icing becomes a function of the temperature at the cloud base and of the height of the aircraft above the cloud base. The probability of encountering any particular water content, then, is established by a combination of cloud-base temperature probabilities and the probabilities of being at various heights above the cloud base. Since these probabilities are functions of frequency distributions of these two variables, the distributions must be determined and combined to give a final probability distribution of water content. The following procedure was used to obtain this distribution.

The variation of water content as a function of the height above the cloud base and the temperature at the cloud base was calculated from equation (D1). The results are given in figure 15 for 500-foot intervals of height above the cloud base. Next, a frequency distribution of cloud-base temperatures was determined from the temperature distribution of icing clouds given in figure 11. The distribution of figure 11 is assumed to have been measured while flying at random heights above the cloud bases and therefore can apply to any point above the base. A temperature distribution at the cloud base was, therefore, determined by taking the distribution of figure 11 and a pseudoadiabatic lapse rate from a given point in the cloud down to the base of the cloud. The resulting distribution of cloud-base temperature corresponding to a given point in the cloud establishes frequency distributions of the water contents calculated for the 500-foot height intervals of figure 15. These distributions are given in figure 16 as cumulative probability distributions of water content for the 500-foot intervals of height above the cloud base.

A distribution of probabilities of an aircraft being at various heights above the cloud base must now be determined to be combined with the distributions of figure 16. For horizontal flight in clouds the

probability of being at a height above a cloud base h is a function of the probability of clouds existing with depths equal to and greater than h and of the conditional probability of being in the clouds at this particular height above the base. This can be expressed as

$$P(h) = P(H) \times P_H(h)$$

where $H \geqq h$

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The cloud depth frequency distribution of figure 9 can be used to determine probability distribution of $P(H)$. The distribution of figure 9 must be modified, however, to account for the increased chances of encountering clouds with greater depths when flying at random altitudes. Flight at random altitudes also provides equal probabilities of being in the clouds at any interval of height above a cloud base. Using this approach, the probability of being at any interval of height above the cloud base was calculated by

CG-4 back

$$P(h_i) = \sum_{H_i \geqq h_i}^{H_i=6000} \left[P_a(H_i)\right]\left(\frac{1}{n}\right) \qquad \text{(D2)}$$

where

$$P_a(H_i) = \frac{\left[P(H_i)\right] H_i}{\sum_{H=500}^{H=6000} \left[P(H_i)\right] H_i}$$

The results of these calculations are given in figure 17 in the form of a cumulative probability distribution.

The distribution of figure 17 can now be combined with the distributions of figure 16 to give a final probability distribution of water content. This was accomplished by calculating the probability of any increment of water content $P(\Delta w)$ using the distributions of figures 16 and 17 in the relation

$$P(\Delta w) = \sum_{h=500}^{h=6000} \left[P_{h_i}(\Delta w)\right]\left[P(h_i)\right]$$

The combined probability $P(\Delta w)$ is the product of the two probabilities if the distributions of temperature and height above the cloud base are unrelated. The resulting water content probability is plotted in figure 7 (dashed line) for comparison with the measured distribution of water content.

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TABLE I. - AIR ROUTES AND AREAS COVERED BY COOPERATING ORGANIZATIONS AND TYPES OF AIRCRAFT EMPLOYED IN SURVEY

Air route or area	Organization	Type of aircraft
United States Airways		
Transcontinental	United Airlines	DC-4 and DC-6
	American Airlines	DC-6B
Eastern	Eastern Airlines	L-1049
	Northeast Airlines	CV-240 and DC-3
Western United States	Strategic Air Command	RB-36
North Atlantic air route to Europe	Pan American Airlines	B-377 and DC-6B
	Trans World Airlines	L-1049
North Pacific air route to Japan	Northwest Orient Airlines	DC-4
	Pan American Airlines	DC-4
North Central Pacific Ocean ("Petrel" tracks)	Air Weather Service	WB-29
Eastern Pacific Ocean ("Lark" tracks)	Air Weather Service	WB-29
Arctic Ocean ("Ptarmigan" tracks)	Air Weather Service	WB-29
Bering Sea ("Loon" tracks)	Air Weather Service	WB-29
Western Pacific Ocean ("Buzzard" tracks)	Air Weather Service	WB-29

NACA-TR

TABLE II - TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance			Liquid Water Content		Nature of Icing						Meteorological Conditions					Aircraft				
											100-ft						0.01-g/cu m		00.1-in/hr		0.01													
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_c A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
01					1						61	32		12	21			038		061		031			2					3	249			
01					1						90	95	50	8			2	050	060	070	085	023								3	236			
01					1						116	112	79	21			4	006	008	012	016	009								3	315			
01					1						120	127	144	8	8			017		026		009			1					3	233			
01					1						116	115	77	20	66			006		012		009			2					3	303			
01					2							30	65	2	11			040		032		005								3	126			
01					2						133	159	179	27			6	010	030	016	046	017								3	267			
01					2						126	126	126	25			5	024	037	045	070	038								3	303			
01					2						134	163	187	25	29			012		017		017								3	245			
01					2						145	120	68	54	89			009		017		028			2					3	296			
01					3						52	52	52	14	20			041		044		038			2					3	169			
01					3						130	137	147	10			2	039	045	068	077	023								3	292			
01					3						179	181	176	15	15			029		055		027			1					3	300			
01					4						89	46	6												2					3	215			
01					4						118	116	118	103			23	012	046	019	070	074								3	269			
01					4						26	26	115	4	4			017		023		004			1					3	211			
01					5						76	76	50																	3				
01					5						131	137	202	8	8			004		005		002			1					3	233			
01					6						56	56	72	3	3			054		060		010			1					3	177			
01					6						189	187	192	16	26			004		009		005								3	317			
01					7						87	87	87	8	8			014		020		006			1					3	225			
01					8						103	103	60																	3				
01					9						124	124	87	4	4			011		067		011			1					3	268			
01					9						163	163	138	5	5			066		120		020			1					3	289			
01					9						148	147	150	39	49			013		025		033			2					3	293			
01					10						87	91	92																	3				
01					10						111	112	76	26	83			014		022		023			2					3	262			
01					10						147	147	147	31	104			011		021		018			3					3	312			
01					11						135																			3				
01					11						123	123	127	20	41										2					3	304			
01					11						120	70	29	39	94			024		041		055			3					3	296			
01					12						147	112	105	28	41			013		022		022			2					3	276			
01					12						189	173	106	22	22			043		086		058			1					3	325			
01					13						144	138	138	37	37			037		068		091			1					3	280			
01					15						166	166	166	21	57			007		027		009			2					3	314			
01					16						202	199	202	38	72			040		070		092			2					3	289			
01					16						157	55	14	34	92			012		023		020			3					3	289			
01					17						85	98	98	12	12			027		041		021			1					3	244			
01	2	7	4	1858	7	1	32	97		00153	180																			3	200			
01	2	7	6	0902	8	1	39	05		00014	190															55				3	207			
01	2	7	6	0959	9	1	41	98		00014	190															57				3	210			
01	2	7	6	1043	10	1	42	93		00014	200															57				3	205			
01	2	12	4	2245	1	0	36	86		00154	190												4			60				3			3	
01	2	12	5	0455	2	0	39	77		00011	40												4							3			4	
01	2	12	5	0755	3	0	38	77	4	00011	80												3			60				3			4	
01	2	12	10	1940	4	0	38	77		00007	80												3							3			4	
01	2	12	11	1835	5	0	41	87	1	00006													4							3			4	
01	2	12	14	0210	6	0	36	86		00112	130												4			58				3			5	
01	3	1	6	1100	7	0	36	85		00156	110												3			57				3			5	
01	3	1	8	2115	8	0	37	80		00010	150												4			56				3			5	
01	3	1	10	0145	9	0	37	86		00010	135												4			58				3			5	
01	3	1	13	0903	2	1	35	07		00014	190												4			66				3			2	
01	3	1	16		3	0	33	97		00159	25												4							3			2	
01	3	1	16	1625	11	1	37	20		00043	130												4							3			4	
01	3	1	16	2100	4	0	33	97		00159	25												4			82				3			2	
01	3	1	17		6	0	36	84		00009	140												4							3			2	
01	3	1	17	1200	5	0	36	86		00156	210												9			68				3			2	
01	3	1	24	1930	7	0	42	83		00124	20	30	90										3							3			0	
01	3	1	24	1945	8	0	42	83		00124	130												4			68				3			2	
01	3	2	2	2125	10	0	42	75		00136	140												4			59				3			2	
01	3	2	2	2255	11	0	42	82		00137	110		140										4	1						3			2	
01	3	2	7	0610	14	1	39	05		00014	190												2			68				3			0	
01	3	2	7	1026	13	1	35	93		00156	170												2			70		7		3			4	
01	3	2	9	0700	13	1	38	90		00041	120												4			52				3			5	
01	3	2	12	1950	14					06007	70												4							3				
01	3	2	28	0030	19	1	35	19		00044	160												4			64				3			5	
01	3	2	28	1720	16	1	34	03		00955	205												2			58				3			5	
01	3	2	28	2000	17	1	34	03		00955	160												4			60				3			5	
01	3	2	28	2018	18	1	35	12		00955	160												4			60				3			5	
01	3	3	15	1220	1	0	40	75		00005	120		140										4			55				3			4	
01	3	3	22		2	0	36	84		00049	110												2							3				
01	3	3	27		3	0	35	90		00044	170												4			59				3				
01	3	5	13		19	0	40	84		00101	185															60				3			0	
01	3	6	6	0340	20	1	41	98		00038	190												5			60				3			8	
01	3	6	28	1015	21					00038	90												5							3			8	

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft			
										100-ft					0.01-g/cu m	00.1-in/hr			0.01								
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_c A_c$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
01	4	2	6	0057	2	0	41	75		00218	150												4			70				3			1
01	4	2	13	0115	2	1	34	17		00611	160												5			55				3			5
01	4	2	13	1130	1					00611	120															51				3			2
01	4	2	19	1824	3	1	32	06		00111	190												4			54				3			0
01	4	2	21		3	0	41	87		00222	85															05				3			0
01	4	2	21	0550	5	0	42	85		00249	100												4			55				3			4
01	4	2	21	2100	4	0	40	74		00222	100												4			02				3			4
01	4	2	22	0825	6	1	36	95		00249	60																			3			0
01	4	2	23	0008	4	0	40	80		00261	100												4			53				3			4
01	4	2	24	0345	5					00271	170															65				3			
01	4	2	24	0815	7	0	40	79		00190	40												4			56				3			5
01	4	2	25	2026	8	1	33	96		00167	116															05				3			0
01	4	2	25	2030	9	1	33	96		00167	89																			3			0
01	4	2	27	2058	10	1	35	98	2	00202	60															52				3			8
01	4	3	1	1042	6	0	41	76		00214	180			90									4			60				3			5
01	4	3	2	0956	7	0	40	75		00207	60															07		0		3			
01	4	3	2	1055	8	0	40	74		00207	60															06		0		3			
01	4	3	2	1430	9	0	35	88		00207	140			100												56		0		3			
01	4	3	3	1523	12	0	38	77		00243	120												4			55				3			5
01	4	3	7	0015	13	0	40	74		00164	150															03				3			0
01	4	3	10	1015	10	1	36	96		00216	60																	0		3			0
01	4	3	13	1945	14	0	41	86		00262	70												3			53				3			0
01	4	3	14	0815	15	0	39	77	4	00269	60												4			55				3			4
01	4	3	19	1115	2	0	37	80		00100	130												4							3			5
01	4	3	19	1910	3					02710	110												4							3			5
01	4	3	23	1900	4	0	41	83		00168	70												2			02				3			5
01	4	3	24	1430	5	0	40	82		00209	140												3			51				3			4
01	4	3	28	0315	8	0	40	89		00235	140												4			57				3			5
01	4	3	29	0845	6	1	42	90		00049	120												2			58				3			4
01	4	3	29	0930	7	1	42	92		00049	120												2			60				3			4
02					1						190	190	190	25			5	032	063	061	120	052								5	297		
02					2						81	80	62	66			14	012	031	021	055	048								5	281		
02					3						134	133	133	33			7	001	005	002	009	003								5	280		
02					3						47	44	23	22	43			015		024		017			2	56				5	260		
02					3						111	102	63	34			8	036	087	051	120	068								5	253		
02					4						133	133	133	5			1	003	003	006	006	001								5	288		
02					4						112	72	23	28			6	030	061	060	120	060								5	280		
02					5						133	133	107	53			11	006	019	012	034	021								5	289		
02					5						138	140	138	90			18	001	007	002	014	006								5	301		
02					5						17	124	163	27			7	019	049	026	066	031								5	232		
02					6						145	140	119	14			3	008	015	014	026	007								5	280		
02					6						163	163	163	29			6	017	026	031	049	031								5	294		
02					9						140	118	81	24			5	004	006	008	012	007								5	292		
02					13						150	126	100	61			12	002	007	003	013	006								5	304		
02					14						69	46	16	18			4	007	017	012	033	009								5	263		
02	2	10	25	0135	1	0	30	70		00628	200												5			52				5			8
02	2	10	25	0220	2	0	31	70		00628	200												5			54				5			8
02	2	10	25	0240	3	0	31	70		00628	200												5			56				5			8
02	2	10	26	0215	7					00627	150												4			02				5			0
02	2	10	26	1750	4	0	30	70		00626	180												5							5			8
02	2	10	26	1820	5	0	31	70	3	00626	180												4			52		1		5		4	0
02	2	10	26	1835	6	0	31	70	3	00626	180												4			52		1		5		4	0
02	2	10	28	2045	8	0	39	73	2	00626	140												4							5			0
02	2	11	3	1920	9	0	37	79		00505	140												7			52				5			8
02	2	11	10	0426	13	0	35	84		00134	130												4			52				5			8
02	2	11	11	1210	15	0	34	82		00708	130												5			02				5			8
02	2	11	11	1235	16	0	37	82		00708	130												6							5			8
02	2	11	14	0205	17	0	38	77		00635	140												5			52				5			8
02	2	11	14	0230	18	0	38	77		00635	140												4			51				5			8
02	2	11	14	0240	19	0	35	79		00635	12												9			02				5			8
02	2	11	29	1115	1	0	36	87		00108	120												4							5			1
02	2	11	30	0030	8	0	42	81		00702	150												4			55				5			1
02	2	12	1	0356	10	0	42	83		00631	52												4			58				5			1
02	2	12	8	1400	11	0	38	80		00514	170												4			59				5			1
02	2	12	8	1430	12	0	39	77		00514	170												4			59				5			1
02	2	12	9	0320	13	0	35	82		00548																01				5			
02	2	12	10	1245	14	0	38	80		00401	120												4			52				5			1
02	2	12	10	1300	15	0	38	81		00401	120												4			52				5			1
02	2	12	30		2					70200	98	97	36	20			4	002	009	004	016	003								5	294		
02	2	12	30	0350	1	0	32	80		70200	134	142	107	65		400	13													5	301		
02	2	12	31	0900	7	0	32	80		73100	144	119	53	49		415	10	004	013	008	023	014				54				5	296		
02	3	1	2	1525	13					70100	141	140	140	101		205	20									54				5	304		
02	3	1	7	1500	1	0	38	77		00515	80												4			53				5			6
02	3	1	7	2107	3	0	39	77		00516	25												7			51				5			1
02	3	1	8	0330	9	0	35	82		00548	130												4			01				5			1

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude 100-ft			Flight Distance			Liquid Water Content 0.01-g/cu m		Nature of Icing 00.1-in/hr		0.01				Meteorological Conditions				Aircraft				
	t_Y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_w R_w R_w$	$R_w R_w R_w$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
02	3	1	8	0550	4	0	41	74		00545	25												4			51				5				1
02	3	1	8	0550	5	0	41	74		00545	60												4			51				5				1
02	3	1	8	1730	6	0	34	84	2	00523	180												9			60				5				3
02	3	1	8	1730	7	0	34	84		00523	180												9							5				3
02	3	1	8	2225	8	0	33	87		00523	100												4			03				5				3
02	3	1	9	1915	10	0	33	87		00502	190												4			70				5				0
02	3	1	9	1915	11	0	35	85		00502	190												4			70				5				0
02	3	1	10	1843	12	0	36	69		00628	180												4			60				5				0
02	3	1	10	1855	13	0	38	71		00628	180												4			65				5				1
02	3	1	11	0050	14	0	35	71		00627	170												9			55				5				3
02	3	1	15	0515	15	0	42	81		00732	30												7	2						5				3
02	3	1	15	0600	16	0	42	83		00732	23												4			52				5				3
02	3	1	16	0848	17	0	39	85		00701	20		50										7	2						5				3
02	3	1	16	1009	18	0	39	85		00701	130												7	2		58		8		5				2
02	3	1	19	0500	1	0	42	81		00732	50															55		8		5				3
02	3	1	19	0510	2	0	42	81		00732	20													1						5				1
02	3	1	19	0615	3	0	42	83		00732	20													1		57				5				1
02	3	1	20	0900	4	0	42	81		00701	30		20										5	1		55				5				1
02	3	1	24	2115	5	0	40	76		00608	130												4			60				5				1
02	3	2	20	2045	2	0	39	77	2	51000	138	124	59	40		305	8	002	008	004	015	006	4			04		8		5	301			6
02	3	2	21	0100	3	1	38	90	2	40300						3				001			4	1		55				5				0
02	3	2	22	0415	6	0	35	80		63600						400				001			4	1		03				5				0
02	3	2	24	1216	8	0	32	82		50600	179	177	179	102		600	19		003		007	002	4	1				8		5	322			1
02	3	2	24	1320	9	0	36	80		50600	179	179	179	16		205	3						4			51		8		5	323			1
02	3	2	24	2200	11	0				35160	140	128	79	47		300	10	012	063	023	120	038	5	1		53				5	284			1
02	3	3	15	2115	1	0	42	81		00702	73	62	26	10	20			036		067		024	5	1	2	58				5	303			1
02	3	3	15	2200	2	0	42	83		00702	52	49	26	42	75			038		060		100	5	1	4	54				5	250			
02	3	3	16	1700	4	0	42	83		00705	30												4	1		02				5				
02	3	3	18	1010	5	0	38	77		00611	140												4	1		02				5				
02	3	3	31	2147	7	0	38	80		00403	120															05				5				
02	3	3	31	2220	8	0	38	82		00403	120												4	1		05				5				
02	3	4	2	1850	9	0	41	75		00101	75												4	1		04				5				
02	3	4	4	1643	10	0	38	85		00103	89												4	1		52				5				
02	3	4	12	1625	11	0	42	83		00705	50												4	1						5				1
02	3	4	14	0300	12	0	34	83		00545	125												5					8		5				1
02	3	4	15	1215	13	0	33	85		00506	190															58				5				
02	3	4	15	2222	14	0	38	80		00523	100															00		7		5				1
02	3	4	15	2307	15	0	36	80		00523	100															02		6		5				1
02	3	4	18		1	0	39	72		00627	130												4			55		8		5	220			
02	3	4	18	0252	2	0	39	72		00627	130												6			55		8		5	196			
02	3	4	18	0415	16					00628	120												5			01		8		5				1
02	3	4	25	1038	3	0	38	82		00701	135															53		2		5	210			
02	3	4	26	0115	7	0	38	88		00401	80															02		6		5	215			6
02	3	4	26	1035	4	0	38	82		00401	145																	1		5	235			1
02	3	4	26	1110	5	0	38	85		00401	50															02		6		5	208			6
02	3	4	26	1255	6	0	38	88		00401	80															02		6		5	210			
02	3	4	26	1814	8	0	38	89		00402	50															01		6		5	210			1
02	3	4	26	2110	9	0	39	77		00402	90															04		68		5	200			3
02	3	4	30	1235	10	0	38	81		00404	130															05		1		5	185			
02	3	5	7	1832	11	0	38	87		00402	130															55		1		5	204			
02	3	5	7	2018	12	0	37	80		00402	110															02		9		5	210			
02	3	5	30	1500	13	0	41	74		00601	90													1		53		6		5	210			
03					1						68	68	62	9			3	076	107	086	120	043								2	178			
03					2						18	22	22	5			2	038	056	034	051	012								2	143			
03					4						58	58	44	3			1	052	052	060	060	010								2	167			
03					5						79	91	102	12	12			072		108		054			1					1	236			
03					5						18	18	18	12			5	020	033	017	028	015	5	1				4		2	142	5		
03					7						74	74	74	15	15			011		013		012			1					1	185			
03					8						65	55	11	50			17	030	083	035	102	101								2	176			
03					9						61	38	18	13	25			036		058		029								1	251			
03					9						60	54	12	6			2	026	044	032	053	011								2	175			
03					11						7	13	14	11			4	020	033	019	029	013								2	163			
03					12						58	58	56	9			3	022	033	026	039	013								2	181			
03	3	1	7	0800	1					00050	25	25	25	36		105	14	049	076	049	075	117								2	156			
03	3	1	12	0845	3					00040	63	84	85	45		200	15	029	075	031	075	081				52				2	178			
03	3	1	13	1800	6					00046	71	31	9	77		600	27	083	116	089	120	404	5	1		54	4			2	172	5		
03	3	1	13	1950	7					00049	42	65	77	14		8	5	059	123	061	114	050				54				2	164			
03	3	2	3	0700	10					00105	35	64	64	30		100	11	035	069	036	067	067								2	163			
03	3	2	12	2216	1					00329	44	39	16	6		105	2	100	102	120	120	040	4							2	177			0
03	3	2	26		5	0	44	73		00049	96	90	90	9			3	054	102	065	120	033	3			62				2	185			0
03	3	2	26	1130	2	0	43	72		00042	53	65	78	19		200	7	039	099	040	100	047		1		51				2	162	0	0	0
03	3	3	3	1720	6	0	44	70		00316	25	20	10	6		5	2	076	101	090	120	030	4			60				2	181			0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude			Flight Distance			Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft				
										100-ft						0.01-g/cu m	00.1-in/hr		0.01										
	t_y	t_m	t_d	$t_g t_g t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_c D_c D_c$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_c A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
03	3	3	5	1520	7	0	45	70		00023	60					100							3						2		0	0	1
03	3	3	19	1100	13	0	42	72		00052	47	48	47	15		600	5	042	105	049	120	041	5						2	180	0	0	1
03	3	3	19	1220	14	0	42	72		00053	58	58	58	17			6	063	084	070	095	071	4						2	173	0	0	1
03	3	3	20		15					00054	28	28	28	51			20	038	061	037	055	126							2	154			
03	3	3	20	2122	16	0	42	72		00059	42	44	44	36		305	13	070	116	071	120	156	5			57			2	164	0	0	9
03	3	4	2	1530	1	0	42	72		00316	68	68	68	22		400	8	047	076	049	079	065	9			02			2	166			0
03	3	4	7	1726	2	0	43	72		00046	56	45	5	37		600	12	048	088	056	102	111	4			02			2	185			
03	3	4	7	2005	3	0	44	73		00049	77	77	78	31		405	10	032	073	039	089	065	4			52			2	187			1
03	3	4	13	1200	4	0	44	73		00042	60	60	60	24		108	8	055	089	063	102	086	4	2					2	182			9
03	3	4	13	1350	5	0	44	72		00045	70	70	70	96		400	31	039	089	045	100	237	4	2					2	185			9
03	3	4	16	1545	8	0	42	73		00062	60					100							4	2		03			2				6
03	3	4	17	1250	9	0	45	73		00042	90		20			100							4			60			2				0
03	3	4	17	1342	10	0	45	73		00045	20	100	98	11		108	4	030	085	031	084	021	3			60			2	165			0
03	3	4	17	1411	11	0	44	73		00045	103	102	102	17		6	5	063	099	079	120	066	4			62			2	200			0
03	3	4	18	2200	12	0	43	71		00059	60					100							2			01			2				0
03	3	4	19	1642	14	0	42	72		00319	60					605							9			02			2				6
03	3	12	28	1950	1	0	45	73		00389	69	77	95	7	7			058		073		024	4	1					1	198			5
03	4	2	14	2005	1	0	45	73		00389	60												2						1				9
03	4	2	17	1805	2	0	42	71		00117	15		50										4						1				9
03	4	2	17	1835	3	0	41	72		00117	70												4						1				9
03	4	2	17	1850	4				2	00117	70																		1				9
03	4	2	17	1955	5					00112	40																		1				8
03	4	2	25	1500	6	0	45	71		00158	130												5			58			1				5
03	4	2	25	1830	7	0	44	68		00175	60												5			51			1				5
03	4	2	26	1908	8	0	45	73		00388	110												9			58			1				5
03	4	2	26	2100	9	0	45	73		00389	120												9			58			1				5
03	4	3	25	1450	10	0	43	71		00108	30												4						1				5
04					1						110	122	124	28			8	056	096	069	120	093							7	209			
04					1						66	66	66	17			5	027	037	036	050	030							7	206			
04					1						48	36	30	23	58			048		056		074			3				7	173			
04					1						81	80	83	14	14			016		021		014			1				7	216			
04					1						56	56	5	96	145			015		023		094			3				7	241			
04					1						50	51	71	37	66			014		023		035			2				7	248			
04					1						95	81	48	48	48			027		038		084			1				7	223			
04					1						85	96	98	46	46			021		027		063			1				7	199			
04					1						48	49	66	27	27			031		040		054			1				7	202			
04					2						71	70	70	9	30			052		086		029			2				7	258			
04					2						103	54	8	30			8	020	065	029	097	038							7	222			
04					2						83	83	80	4	4			076		120		020			1				7	251			
04					2						55	83	84	56	130			018		026		066			6				7	222			
04					2						61	61	61	11	11			016		021		011			1				7	211			
04					2						92	91	89	11	30			016		024		012							7	222			
04					2						66	66	66	11	11			012		017		009			1				7	215			
04					2						91	86	54	52	112			011		015		035			5				7	223			
04					2						101	101	101	26	44			023		032		039			3				7	222			
04					2						79	79	79	52	52			020		031		066			1				7	238			
04					2						142	107	92	20	20			032		047		039			1				7	235			
04					2						85	86	89	22	36			033		045		046			2				7	215			
04					3						61	65	66	7			2	028	043	036	055	012							7	205			
04					3						79	79	80	8	36			044		068		023			2				7	240			
04					3						64	61	58	14	29			044		060		040			2				7	217			
04					3						71	73	71	92	206			017		027		098			7				7	252			
04					3						142	142	131	16	20			010		014		010			1				7	234			
04					3						83	83	83	28	43			009		013		015			3				7	236			
04					3						86	86	89	63	119			028		040		115			4				7	224			
04					3						61	60	60	67	74			025		034		107			2				7	210			
04					3						83	83	83	28	57			022		034		039			3				7	244			
04					3						49	48	48	18	37			030		044		037			2				7	221			
04					4						74	78	77	7			2	046	084	065	120	022							7	217			
04					4						60	61	61	12	53			051		080		040			2				7	244			
04					4						85	83	78	15	15			015		023		016			1				7	229			
04					4						102	101	101	59	89			022		031		085			2				7	222			
04					4						80	83	83	37	127			020		031		047			5				7	246			
04					4						70	69	70	46	46			036		057		105			1				7	250			
04					5						97	97	97	15	66			040		059		038			3				7	232			
04					5						71	71	73	24			6	013	022	020	033	021							7	237			
04					5						61	61	61	12	36			056		085		043			2				7	242			
04					5						70	55	22	14	46			013		018		012			2				7	210			
04					5						64	21	6	17	60			010		013		011			3				7	199			
04					5						80	83	83	36	88			005		007		010			3				7	239			
04					5						87	83	84	55	71			022		032		075			2				7	237			
04					5						83	83	83	21	50			033		051		043			2				7	248			

[a] Coded item.

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TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance					Liquid Water Content		Nature of Icing				Meteorological Conditions					Aircraft				
											100-ft								0.01-g/cu m		00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_g t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_c D_c D_c$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)		$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)		$A_A A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
04					6						46	19	2	47	67				038		050		110			3						7 201			
04					6						78	79	80	100	179				029		039		177			7						7 215			
04					6						64	60	63	22	51				008		011		011			2						7 219			
04					6						74	73	76	29	70				007		011		014			2						7 248			
04					6						78	79	79	14	25				007		010		006			2						7 214			
04					7						71	70	70	7	18				007		010		004									7 221			
04					7						34	58	83	10	10				043		042		028			1						7 155			
04					7						73	73	73	17	17				009		013		009			1						7 251			
04					7						63	63	63	16	24				008		012		009									7 238			
04					7						83	81	81	22	33				002		003		003									7 223			
04					7						71	71	71	30	39				022		036		041									7 260			
04					8						79	64	63	65			16		010	021	015	034	041									7 242			
04					8						53	34	16	28	28				069		086		116			1						7 207			
04					8						63	63	63	8	8				016		024		008			1						7 245			
04					8						73	73	73	27	61				013		019		023			2						7 230			
04					8						61	59	59	36	52				012		019		028			2						7 241			
04					8						81	80	81	25	25				028		037		043			1						7 210			
04					8						87	85	89	9	9				025		041		014			1						7 264			
04					9						44	68	90	22	22				040		043		058			1						7 167			
04					9						60	61	59	11	11				051		073		037			1						7 227			
04					9						54	41	17	19			6		038	083	046	115	046									7 189			
04					9						60	60	63	20	63				014		021		018									7 237			
04					9						74	76	74	7	44				082		115		037			2						7 220			
04					9						63	63	53	15	51				010		014		010			3						7 218			
04					9						85	87	85	60	168				029		045		113			7						7 240			
04					9						81	89	83	27	30				024		032		043									7 202			
04					9						76	83	79	22	55				037		052		052			3						7 219			
04					10						81	86	92	7	7				067		085		029			1						7 202			
04					10						70	71	81	73	113				019		027		091			3						7 219			
04					10						76	74	74	15	42				014		020		011			3						7 231			
04					10						46	39	19	13	23				005		006		003			2						7 197			
04					10	2	54	75			107	103	107	22	33				023		032		033			2						7 221			
04					10						85	81	91	143	165				023		031		212			2						7 215			
04					11						61	61	61	20			6		055	095	070	120	070									7 203			
04					11						96	97	97	64	92				039		053		153			3						7 213			
04					11						95	92	59	72	113				014		020		064			3						7 226			
04					11						81	81	81	8	19				013		018		006			1						7 229			
04					11						90	89	55	24	59				013		020		019			2						7 236			
04					11						61	61	61	16	16				020		029		019			1						7 233			
04					11						86	85	85	165	165				033		046		348			1						7 220			
04					12						81	85	81	11	52				079		112		056			2						7 223			
04					12						97	97	98	15	18				043		060		040									7 219			
04					12						89	86	86	12	51				067		100		051									7 235			
04					12						61	61	61	25	64				016		025		026			3						7 240			
04					12						102	101	102	16	16				006		009		006			1						7 234			
04					12						71	41	28	28	91				030		045		051			3						7 237			
04					12						65	50	18	33	67				036		052		077			3						7 223			
04					13						83	83	83	11	15				014		019		010									7 220			
04					13						63	63	63	36			11		054	096	067	120	124									7 194			
04					13						63	63	63	16	16				012		018		012			1						7 233			
04					14						103	103	97	4	4				089		120		020			1						7 212			
04					14						45	45	45	20	20				015		022		018			1						7 234			
04					14						63	64	64	55	82				014		021		047			3						7 235			
04					14						101	101	101	68	113				014		020		060			2						7 225			
04					14						80	79	79	68	92				007		011		034			3						7 240			
04					14						63	63	63	11	11				027		036		018			1						7 210			
04					14						85	85	85	14	14				026		034		024			1						7 212			
04					14						66	66	68	19	19				026		036		031			1						7 225			
04					15						89	79	70	18	18				018		026		022			1						7 220			
04					15						85	85	85	15	15				013		018		013			1						7 225			
04					15						97	97	101	19	23				004		006		005									7 229			
04					16						74	74	74	4	15				011		016		002									7 227			
04					16						97	96	97	49	86				030		043		092			4						7 224			
04					16						83	83	81	11	11				032		044		023			1						7 213			
04					17						19	37	59	13	13				041		050		034			1						7 195			
04			1122	2		1	38	31			80													4	1			54			7 160		0	
04			1131	3		1	38	37			80													4	1			54			7 155		8	
04			1232	5		1	37	38			80													2				54			7 160		0	
04	2	12	7 1920	2		1	47	14		02501	120	118	110	11		100	3		012	028	016	037	008	9				55			7 220			
04	2	12	7 1940	3		1	47	14		02501	102	102	92	62			18		031	072	039	089	120	4				55			7 206			
04	2	12	7 1940	4						02501														4							7			1
04	2	12	7 1940	5		1	47	17		02501	91	91	92	24			7		021	030	027	039	032	4				55			7 204			1
04	2	12	7 1940	6		1	48	18		02501	95	92	92	47			14		059	097	078	120	182	4				55			7 200			1
04	2	12	7 2145	7		1	47	20		02501	92	55	30	56		100	17		038	091	050	120	143	9				55			7 196			1
04	2	12	8 0006	13		1	59	46		32308						104								4							7			1

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude			Flight Distance			Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft				
										100-ft						0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$l_o l_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
04	2	12	8	1805	8	1	49	24		32308	111	111	111	7	5	2	036	052	045	066	015	4			68				7	197			1
04	2	12	8	1933	9	1	51	27		32308					103							4							7				1
04	2	12	8	2346	12	1	59	46		32308					3							4							7				1
04	2	12	13	0443	1	2	53	76		32413					4							4			55				7				1
04	2	12	13	0645	2					32413					300							4			70				7				1
04	2	12	13	1030	3	1	59	57		32413					103							4			70				7				9
04	2	12	15	0531	4	1	49	24		32315					4							2			53				7				1
04	2	12	15	0955	5	1	59	40		32315					100							2			62				7				1
04	2	12	25	1905	6	1	56	71		32324					200							4			60				7				0
04	2	12	25	1930	7	1	56	73		32324					205							4			60				7				1
04	2	12	26	0315	8	1	53	76		32425					1										68				7				0
04	2	12	26	0600	9	1	57	70		32425					1							4			68				7				0
04	2	12	26	0632	10					32425					3							5			68				7				8
04	2	12	26	0850	11	1	59	54		32425					100							5			60				7				8
04	3	1	2	0142	12	1	59	54		32501					204							4			65				7				1
04	3	1	2	0639	13	1	57	70		32501					203							9			70				7				1
04	3	1	3	1830	14	1	59	57		32603					600							9			60				7				8
04	3	1	7		18	2	53	76		32607												4			65				7				1
04	3	1	7	0600	17	2	50	65		32607					105							4			65				7				1
04	3	1	7	2027	15	2	35	39		32607					203							4			65				7				1
04	3	1	7	2122	16	2	40	50		32607					103							4			65				7				1
04	3	1	11	0910		2	53	76		05424					100							2							7				0
04	3	1	11	1115		2	52	67		05424					105							4			61				7				0
04	3	1	11	1550	1	2	35	43		05424					400							2							7				0
04	3	1	11	1645	2	2	36	42		05424					5							2							7				0
04	3	1	11	1720	3	2	37	41		05424					300							2							7				0
04	3	1	11	1805	4	2	38	41		05424					105							2							7				0
04	3	1	11	1825	5	2	37	40		05424					5							2							7				0
04	3	1	17	0350	8	2	35	40		32617					400							4			65				7				1
04	3	1	17	0448	9	2	35	40		32617					207							4			65				7				1
04	3	1	17	0525	10	2	35	40		32617					805							4			58				7				1
04	3	1	17	0710	11	2	35	40		32617					200							4			60				7				1
04	3	1	17	0920	12					32617															70				7				
04	3	1	18	1805	1	1	46	06		02001	80											3			52				7				0
04	3	1	18	1910	2	1	47	17		02001	90											3			52				7				0
04	3	1	18	1940	3	1	47	15		02001												2			52				7				0
04	3	1	18	2030	4	1	47	15		02001	10											9			55				7				8
04	3	1	18	2200	5	1	48	17		02001	10											4			52				7				8
04	3	1	19	0400	13	1	51	27		32319					100							3			58				7				1
04	3	1	19	0540	14					32319					6							4			53				7				0
04	3	1	19	0638	15					32319					602							4			51				7				1
04	3	1	30	0233	16	1	59	42		32400					508							4							7				8
04	3	1	30	0500	17	1	54	42		32400					706							2							7				0
04	3	1	30	0640	18	1	51	27		32400					606										10				7				
04	3	2	1	0040	6	1	47	97		00853	40											3			58				7				1
04	3	2	1	0105	7	1	47	97		00853	45											9	1		55				7				9
04	3	2	1	0350	8	1	52	05		00853	40														00				7				0
04	3	2	2	1630	19	1	47	22		32502					100							3			00				7				1
04	3	2	2	1850	20	1	53	32		32502					7										55				7				1
04	3	2	2	1905	1	1	54	32		32502					3										55				7				1
04	3	2	2	1945	2	1	57	36		32502					5							3			55				7				1
04	3	2	2	2207	3	1	59	46		32502												3			55				7				9
04	3	2	5	1232	5	1	47	20		00561					203							4			55				7				8
04	3	2	5	1858	4	1	47	20		00604					102							4			55				7				8
04	3	2	10	1045	9	1	55	70		00803	80											4			73				7				8
04	3	2	10	1450	10	1	46	53		00803	80											4			67				7				8
04	3	2	10	1528	11					00803	80											4			67				7				8
04	3	2	10	2015	12	2	36	42		00803	80											4			67				7				8
04	3	2	13	0920	8	2	53	76		32413					105							4			70				7				8
04	3	2	13	1535	9	1	60	52		32413					101							2			65			8	7				0
04	3	2	17	0150	10	1	42	98		00853					205							9			55				7				5
04	3	2	18	0715	11	1	54	12		00852					105							2			55				7				1
04	3	2	28	0530	14	2	35	40		87026					705							2			52				7				1
04	3	2	28	0650	15	2	35	40		87026					100							2							7				1
04	3	3	6	2225	16	1	53	08		00802					2										60				7				0
04	3	3	8	1040	1	1	39	35		70100	80											4	1		54				7	158			8
04	3	3	8	1040	2					00701	81	81	81	51	302	13	024	064	036	100	079	4	1		54				7	236			8
04	3	3	8	1122	3					00701	83	87	84	39	2	10	017	050	025	075	042	4	1		54				7	231			0
04	3	3	8	1131	4					00701					101							4	1		54				7				8
04	3	3	8	1232	6					00701					1							2			54				7				0
04	3	3	12	1005	18	2	37	41		00870					300							2			60			8	7				8
04	3	4	8		6	1	58	61		80370	85	85	85	11	29		010		013		007	2		2				7	215			1
04	3	4	8		7	1	57	71		80370	85	85	85	11	15		007		011		005	2						7	225			1
04	3	4	8		8	1	54	77		80370	76	55	50	8	39		027		039		013	4			64				7	232			1
04	3	4	8		9	2	54	75	2	80370	70											2			62				7	175		7	1

[a] Coded item.

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CG-5 back

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude (100-ft)			Flight Distance				Liquid Water Content (0.01-g/cu m)	Nature of Icing (0.1-in/hr)						(0.01)			Meteorological Conditions				Aircraft				
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_c D_c D_c$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
04	3	9	7		1	1	60	52		32370	8												2			60				7	157			0
04	3	9	7		2	1	59	57		32370	80												2			58				7	157			0
04	3	9	7		3	1	57	70		32370	81	81	81	99	147			017		024		100	2	2		53				7	221			0
04	3	9	7		5	1	57	75		32370	71	71	71	45	64			016		023		046	2							7	226			0
04	3	9	7		4	1	57	70		32370	83	83	83	49	68			009		014		030	2	3						7	226			0
05					1						98	97	98	112			35	017	039	021	046	124								7	192			
05					1						89	85	85	78			23	034	074	043	095	167								7	203			
05					1						53	53	29	3			1	090	090	120	120	020								7	192			
05					1						97	120	116	11			3	030	058	042	080	020								7	213			
05					1						100	100	79	11			3	013	019	018	027	009								7	211			
05					1						96	73	28	62			19	019	045	024	055	076								7	197			
05					2						32	29	2	6			2	008	008	010	010	004								7	172			
05					2						76	54	32	29			9	007	015	009	020	014								7	196			
05					2						98	97	96	36			11	020	045	025	055	045								7	196			
05					2						107	128	128	70			21	035	077	044	089	152								7	199			
05					3	1	51	28		94303						100							4			51				7				
05					3						98	96	97	26			8	040	056	049	070	068								7	192			
05					3						90	89	87	11			3	026	053	037	075	019								7	221			
05					3						59	64	91	6			2	026	046	028	049	009								7	189			
05					3						64	48	5	21			7	016	034	020	046	024								7	179			
05					3						111	111	130	11			3	016	020	022	028	011								7	214			
05					3						86	86	86	14			4	020	032	026	042	018								7	207			
05					3						116	106	106	31			8	009	017	014	026	020								7	232			
05					3						96	95	95	21			6	034	042	044	055	045								7	208			
05					4						100	100	100	10			3	020	027	026	034	014								7	198			
05					4						39	40	20	6			2	022	029	025	040	009								7	179			
05					4	1	51	28		94404						100							4			51				7				
05					4						87	87	49	6			2	020	021	024	029	008								7	187			
05					5						106	106	103	15			4	015	033	022	048	014								7	229			
05					5						87	87	87	31			9	025	049	033	063	052								7	206			
05					6						105	102	102	26			7	013	024	018	033	022								7	221			
05					6	1	65	47															2			51				7				1
05					6						107	102	102	11			3	014	016	021	023	010								7	226			
05					6						97	97	97	21			6	027	055	036	075	037								7	205			
05					7						100	100	100	7			2	038	039	049	051	017								7	207			
05					8						110	110	110	18			5	018	026	023	034	020								7	212			
05					8						76	68	10	12			4	027	052	032	060	021								7	174			
05					8						73	85	96	12			4	046	064	054	071	037								7	187			
05					8						100	100	100	21			6	055	089	074	120	074								7	207			
05					9	1	63	42															2			51				7				1
05					9						83	83	83	11			3	010	016	013	021	007								7	211			
05					9						131	131	130	7			2	017	018	021	023	007								7	207			
05					9						102	102	100	7			2	060	068	078	089	026								7	210			
05					10						130	130	109	28			8	010	025	013	033	018								7	211			
05					10						102	100	100	11			3	058	070	078	095	039								7	212			
05					11						109	69	64	30			8	001	007	002	011	003								7	234			
05					11						86	86	86	54			16	046	097	057	120	153								7	202			
05					12						80	87	120	6			2	039	055	046	060	015								7	187			
05					13						92	92	112	18			5	005	011	007	015	006								7	211			
05					13						38	30	13	24			9	030	057	031	055	046								7	157			
05					14						106	103	103	17			5	028	085	039	120	032								7	210			
05					14						33	46	102	9			3	031	037	032	037	016								7	173			
05					15	1	51	27															2			52				7				1
05					16						81	79	81	11			3	027	033	037	046	019								7	211			
05					17						109	107	89	12			3	028	066	042	100	021								7	236			
05				0030	2	1	48	23		00901						200							2			57				7				8
05				0947	13	1	53	31															2	2		52				7				1
05				1409	5	1	57	33																		53				7				
05				1810	2	1	62	39																		03				7				0
05				1851	3	1	63	44																		02			7	7				1
05				1857	4	1	63	44																		01			7	7				1
05				1950	2	1	65	52								205							3	2		01				7				
05				2050	3	1	65	61								5							2	2						7				
05				2140	10	1	62	39															2			52				7				1
05	2	8	19	1930	1	1	65	52		00901						101							3	3		02				7				
05	2	8	23	1020	4	1	50	25		00905						305							4	2		53				7				
05	2	9	11	0230	6	1	55	32	4	00901						20							5	3		53				7				
05	2	9	14	0600	7	1	55	32		00944						3										01				7		0		
05	3	2	5	1210	1	7	17	77	1	84303						100							2			52				7				0
05	3	2	5	1240	2					84303						600							2			57				7				0
05	3	2	6	0846	4	1	53	33		00923						600							4			54				7				8
05	3	2	6	1540	5	1	57	33		00924						300							4			59				7				8
05	3	2	6	1540	6	1	57	33		00924						300							4			59				7				8
05	3	2	6	1910	7	1	53	33		00924						5							2			56				7				0
05	3	2	9	1150	8	1	50	25		00905																01				7				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude			Flight Distance			Liquid Water Content	Nature of Icing			Meteorological Conditions				Aircraft				
										100-ft						0.01-g/cu m	00.1-in/hr		0.01									
	t_y	t_m	t_d	$t_1t_1t_gt_g$	N	O (a)	L_aL_a	l_ol_o	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_cA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
05	3	2	9	1230	9	1	50	25		00905						5												7			1
05	3	2	9	1345	10	1	53	31		00905						5									01			7			1
05	3	2	9	1549	11	1	55	32		00905												4						7			1
05	3	2	9	1630	12	1	57	33		00905															56			7			1
05	3	2	14	0455	3	1	25	40	5	82312						200						2			52			7			0
05	3	2	15	1630	4	1	25	40	4	82615						600									72			7			8
05	3	2	17	1230	14	1	57	33		00923															58			7			1
05	3	2	17	2305	15	1	57	33		00924						200						4			60			7			1
05	3	2	19	2000	16	1	57	34		00905						310						5			58			7			9
05	3	2	26	1815	9	1	50	25		00905	97	96	92	85			26	025	055	030	066	127	4	1	53			7	196		
05	3	2	27	0347	11	1	64	47		00905												2	1		58			7			
05	3	2	28	0912	5	1	20	50		84427						408						2			62			7			8
05	3	4	4		20					00904	100					900									51			7			
05	3	4	4	0800	19	1	53	32		00904	80	100	120			720						4			54			7			1
05	3	4	25		6	1	53	29		00904	80					600						4			51			7			1
05	3	4	25	0230	5	1	53	29		00904	80					600						4			53			7			1
05	3	4	30	1615	7	1	63	42		00908	101					403						4			55			7			1
05	3	4	30	1700	8	1	63	41		00908	100					900						4			56			7			1
05	3	5	7	1920	9	1	57	33		00943	90					200						4			54			7			1
05	3	5	9	2104	10	1	63	42		00908	100					5						2			59			7			1
05	3	5	9	2150	12	1	62	38		00908	100					2						2			59			7			1
05	3	5	9	2131	11	1	62	40		00908	100											2			59			7			1
05	3	5	18		13					00901	90											2			51			7			1
05	3	5	22	0200	14	1	50	25		00901	90					5						2			56			7			1
05	3	5	27	0030	15	1	59	35		00908	120					905						2			59			7			1
05	3	5	27	0430	16	1	55	32		00908	80					5						2						7			9
05	3	5	28	1152	18	1	55	32		00901	90											4			51			7			1
05	3	5	29	0930	19	1	63	43		00902	100											2			53			7			1
05	3	5	29	1045	20	1	61	35		00902	100											4			53			7			1
05	3	6	2		1	1	49	24		00911			70			100						4			53			7			1
05	3	6	2		2	1	55	32		00911			90			100						2			51			7			1
05	3	7	17	1410	1	1	55	32		90500	90											2						7			1
05	3	7	19	2240	5	1	65	47		90820	100											2			51			7			1
05	3	7	20	0020	11	1	61	36														2			53			7			1
05	3	7	23	0955	12	1	51	27		92323	90											4			53			7			1
05	3	7	26	0100	14	1	51	27		90100												2			52			7			1
05	3	7	29	1030	16					92300	70														10			7			0
06											213	230	232	19	48			006		007		004		2				4	286		
06					1						154	154	154	23	23			015		025		022		1				3	270		
06					1						93	110	112	17	60			059		097		064		3				4	259		
06					1						157	157	157	47	47			019		031		057		1				3	256		
06					1						100	89	68	37	51			018		025		042		2				3	219		
06					1						151	151	151	26	26			029		048		047		1				4	257		
06					1						192	192	192	25	25			010		020		017		1				4	297		
06					1						211	217	234	26	36			012		023		020		2				4	307		
06					1						157	157	159	63	97			019		030		074		2				4	253		
06					1						157	157	157	31	31			007		012		014		1				3	266		
06					1						126	126	126	26	56			009		015		013		2				4	257		
06					1						156	156	153	14	14			020		035		018		1				4	281		
06					1						111	111	42	4	4			029		049		008		1				4	265		
06					1						154	148	151	37	87			027		047		063		4				4	275		
06					1						185	185	185	9			2	024	025	042	044	014						4	269		
06					1						116	85	79	14	33			056		100		050		3				4	283		
06					1						102	106	153	8	8			044		066		022		1				4	238		
06					1						137	140	157	8	27			030		042		014		2				3	228		
06					1						51	50	3	8	8			032		050		017		1				4	240		
06					1						110	144	174	49	67			033		055		101		2				4	267		
06					1						63	45	19	32	32			053		091		107		1				4	272		
06					1						174	174	174	20	20			019		037		024		1				4	300		
06					1						77	95	126	19	19			018		025		021		1				4	227		
06					1						49	77	124	15	22			017		024		012		2				4	221		
06					1						196	196	196	23	23			013		023		020		1				4	276		
06					2						187	190	190	46	46			013		020		036		1				3	250		
06					2						109	109	109	13	13			014		022		011		1				4	258		
06					2						153	153	153	29	46			015		026		030		1				3	251		
06					2						63	59	13	8	8			029		047		015		1				4	253		
06					2						133	133	135	16	16			039		059		040		1				4	240		
06					2						59	47	5	16	37			064		098		065		3				4	245		
06					2						53	53	34	5	5			013		023		004		1				4	279		
06					2						150	150	150	9	9			019		034		011		1				4	277		
06					2						163	160	160	22	70			007		011		010		3				3	261		
06					2						147	147	147	28	61			009		015		015		3				3	280		

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time						Location					Pressure Altitude			Flight Distance			Liquid Water Content		Nature of Icing					Meteorological Conditions					Aircraft					
												100-ft						0.01-g/cu m		00.1-in/hr		0.01													
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06					2						179	179	179	13			3	010	020	017	034	009								4	263			
06					2						52	106	126	21			5	018	029	029	044	024								4	256			
06					2						159	112	112	45			10	014	044	023	070	039									270			
06					2						120	120	120	9	14			058		100		033								4	271			
06					2						98	93	47	9	9			043		074		024			1					4	271			
06					2						105	105	102	9	9			032		055		018			1					4	271			
06					2						142	142	142	13	13			035		059		030			1					4	265			
06					2						102	123	173	8	30			039		060		020			2					4	254			
06					2						87	87	89	28	43			039		071		071			2					4	284			
06					2						176	154	154	37	70			015		026		032			3					1	278			
06					2						160	163	124	14	47			007		012		004			2					4	284			
06					2						101	103	78	23	59			007		012		007			4					4	271			
06					2						232	232	232	25	25			006		012		010			1					4	303			
06					3						181	181	181	23	37			015		027		023			2					3	274			
06					3						123	126	124	18	41			034		059		039			3					4	272			
06					3						46	53	101	8	8			083		120		040			1					4	230			
06					3						141	141	142	16	16			011		016		011			1					4	236			
06					3						169	169	169	9	9			012		020		007			1					3	276			
06					3						163	163	162	24	61			012		019		019			2					3	242			
06					3						176	176	179	9	9			017		029		010			1					4	267			
06					3						168	168	168	17	30			018		031		021			2					3	257			
06					3						156	156	150	5	5			019		034		006			1					4	282			
06					3						101	76	52	14	14			008		014		007			1					4	284			
06					3						115	144	153	61			14	022	072	037	120	087								4	262			
06					3						111	111	111	17			4	013	029	021	046	014									251			
06					3						91	96	154	8	8			030		047		015			1					4	246			
06					3						153	153	153	37	37			032		051		075			1					3	249			
06					3						56	56	65	4	4			038		058		010			1					4	241			
06					3						110	128	131	13	13			039		063		031			1					4	255			
06					3						124	73	15	20	30			020		038		026			2					4	300			
06					3						34	28	5	7	7			047		059		020			1					4	198			
06					3						148	148	148	8	8			016		026		009			1					4	253			
06					3						106	107	107	9	18			010		016		005								4	266			
06					4						134	134	134	27	27			036		060		060			1					4	266			
06					4						103	135	145	21	28			044		060		059								3	212			
06					4						168	168	168	5	5			013		022		004			1					3	274			
06					4						134	134	157	23	41			013		023		019			3					4	270			
06					4						134	151	153	57	84			013		021		042			3					4	265			
06					4						120	112	112	18	50			018		030		020			2					3	270			
06					4						179	179	197	4	4			019		032		005			1					4	261			
06					4						162	156	156	45			10	010	017	017	030	030								4	267			
06					4						52	49	11	19			5	001	007	002	011	002								4	224			
06					4						100	100	105	4			1	007	007	010	010	002								4	233			
06					4						176	169	134	9			2	018	035	031	061	010								4	282			
06					4						95	89	56	10	10			044		084		028			1					4	301			
06					4						169	169	169	9	22			030		050		017			2					4	269			
06					4						89	89	89	5	5			031		055		009			1					4	279			
06					4						176	176	176	18	32			019		033		022								4	273			
06					4						71	123	151	27	78			017		025		018			4					4	235			
06					4						130	134	151	37	37			014		023		034			1					4	249			
06					4						106	103	106	14	14			013		023		012			1					4	272			
06					4						98	98	100	40	67			013		022		028			3					4	268			
06					4						137	137	137	4	32			022		038		006								1	244			
06					5						131	76	22	31	54			034		055		065			2					4	269			
06					5						151	151	150	5	5			010		017		003			1					4	272			
06					5						173	173	173	9	9			011		018		006			1					4	283			
06					5						145	145	145	9	9			013		021		007			1					3	259			
06					5						133	133	133	9	37			019		034		011			2					4	276			
06					5						192	187	187	14	84			007		012		006			3					3	264			
06					5						51	51	23	4	4			008		012		002			1					3	247			
06					5						131	83	38	42	42			025		051		067			1					4	314			
06					5						157	159	159	9			2	011	017	018	028	006								4	262			
06					5						89	89	41	4			1	016	016	028	028	005								4	260			
06					5						138	138	138	9			2	026	032	042	053	014								4	257			
06					5						100	107	109	12			3	008	010	012	015	006								4	239			
06					5						58	97	147	8	33			046		072		023								4	245			
06					5						145	144	145	9	9			033		057		019			1					4	276			
06					5						151	151	153	42	79			038		067		089			2					4	279			
06					5						124	124	71	5	5			018		037		006			1					1	320			
06					5						119	119	120	18	27			013		022		011			2					4	265			
06					5						97	97	44	14	18			008		014		007								4	271			
06					5						150	150	150	17	26			002		004		002								4	260			
06					6						151	151	151	54	63			012		021		042			2					4	271			
06					6						154	154	177	22	22			011		018		014			1					4	262			
06					6						166	166	166	27	27			007		011		013			1					3	265			

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing					Meteorological Conditions					Aircraft				
											100-ft				0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_Q t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_cD_cD_c$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_tA_t (a)	V V V (mph)	V_c (a)	A (a)	A_d (a)
06					6						97	90	20	10	10			008		016		005			1					4	304			
06					6						157	157	157	9	9			022		037		012			1					3	270			
06					6						141	141	141	54	54			023		039		077			1					4	271			
06					6						95	81	26	94	166			025		040		143			5					4	255			
06					6						56	76	142	21			5	021	038	030	055	024									246			
06					6						157	157	157	30			7	014	032	024	053	028								4	258			
06					6						109	109	130	16			4	018	022	027	032	017								4	239			
06					6						17	11	3	19	19			073		086		086			1					4	185			
06					6						115	115	115	4	4			079		120		020			1					4	240			
06					6						159	159	173	8	8			042		066		022			1					4	244			
06					6						156	156	156	14	14			032		057		029			1					4	281			
06					6						176	176	176	14	60			035		061		030			3					3	279			
06					6						154	159	165	9	9			035		060		020			1					4	271			
06					6						100	105	141	37	41			035		061		082								4	275			
06					6						107	107	109	23	27			011		019		016								4	272			
06					6						56	62	111	7	7			043		059		020			1					4	220			
06					6						96	103	103	34	76			010		015		021			3					1	254			
06					6						144	144	144	17	26			019		031		016								4	256			
06					6						123	123	123	34	34			024		038		050			1					4	255			
06					6						74	69	63	9	9			022		038		012			1					4	278			
06					7						162	169	181	18	28			042		074		049			2					4	277			
06					7						141	141	141	70	70			011		020		052			1					4	278			
06					7						86	83	33	29	45			029		045		052			2					3	247			
06					7						157	157	157	36	50			011		019		026			2					3	271			
06					7						151	151	151	5	5			019		034		006			1					4	279			
06					7						107	107	107	9	9			019		030		010			1					4	261			
06					7						182	182	182	48	136			024		040		073			5					4	264			
06					7						142	81	45	49	76			026		044		082			2					3	269			
06					7						156	156	154	9	9			027		048		016			1					4	284			
06					7						126	109	18	13	13			028		045		022			1					4	262			
06					7						47	19	11	44			15	033	061	037	080	094								4	177			
06					7						100	97	63	9			2	015	017	026	030	009								4	266			
06					7						127	127	130	8			2	027	041	043	065	015								4	247			
06					7						61	50	19	29	29			020		032		039			1					4	250			
06					7						124	124	124	33	100			013		020		024			3					4	251			
06					7						89	89	50	50	82			026		045		075			4					4	273			
06					7						26	26	7	7	7			023		037		013			1					4	223			
06					7						153	120	64	47	52			007		012		020			2					4	282			
06					8						133	154	169	9	31			015		023		007			2					4	265			
06					8						144	144	144	13	40			051		085		043			2					4	266			
06					8						182	182	182	31	67			016		027		028			4					4	269			
06					8						27	19	11	20	20			020		022		025			1					4	172			
06					8						89	89	25	4	4			021		032		005			1					3	237			
06					8						118	78	78	37	65			027		046		061			2					4	278			
06					8						11	45	103	22			6	023	043	029	055	028								4	218			
06					8						141	141	141	23	46			054		095		079			2					4	276			
06					8						84	84	45	33	33			034		048		072			1					3	221			
06					8						141	142	141	50	50			038		072		122			1					4	302			
06					8						59	61	77	18	18			016		028		018			1					4	265			
06					8						192	130	63	27	54			012		025		016			3					4	323			
06					8						110	171	171	34	55			028		044		060			2					4	253			
06					8						124	124	124	21	21			023		036		031			1					4	248			
06					8						187	187	187	14	19			005		009		004			2					1	277			
06					9						92	87	50	10	10			016		031		010			1					4	307			
06					9						73	83	103	8	8			083		120		040			1					4	229			
06					9						107	107	107	4	4			011		017		003			1					4	250			
06					9						182	169	131	19	48			013		024		016			2					4	289			
06					9						112	119	156	26	26			017		029		028			1					4	263			
06					9						100	100	50	4	4			020		030		005			1					3	240			
06					9						77	53	12	8	37			022		030		010								3	249			
06					9						120	115	116	18	18			024		039		026			1					4	265			
06					9						114	105	31	9			2	015	019	029	036	010								4	270			
06					9						45	49	100	7	7			032		043		014			1					4	215			
06					9						41	37	110	7	7			045		055		018			1					4	197			
06					9						187	184	184	37	37			013		023		035			1					1	282			
06					9						120	120	120	23	28			009		015		012								4	279			
06					9						107	102	109	60	78			025		043		099			2					4	259			
06					9						50	81	127	23	23			024		035		036			1					4	226			
06					9						124	124	124	12	12			007		011		005			1					4	247			
06					10						79	62	38	14	14			059		103		052			1					4	276			
06					10						156	156	156	9	9			012		020		007			1					4	269			
06					10						131	128	128	30	109			006		010		012			3					3	261			
06					10						95	106	112	8	8			025		037		012			1					4	237			
06					10						54	50	36	7			2	004	007	006	012	002									212			
06					10						137	137	137	14			3	008	012	015	021	008								4	276			

[a] Coded item.

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TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content		Nature of Icing						Meteorological Conditions				Aircraft				
											100-ft							0.01-g/cu m		00.1-in/hr		0.01												
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$l_o l_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_c A_c$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06					10						93	93	87	5			1	019	019	033	033	006								4	279			
06					10						85	85	85	5	5			070		120		020			1					4	271			
06					10						144	144	144	5	5			067		120		020			1					4	283			
06					10						96	96	96	22	22			054		091		076			1					4	265			
06					10						124	118	84	10	30			032		060		020			2					4	298			
06					10						20	28	63	11	11			037		051		025			1					4	225			
06					10						130	130	130	13	39			036		060		030			2					4	260			
06					10						109	109	116	60	90			017		027		064			5					4	257			
06					10						97	89	58	33	55			014		020		027			4					4	221			
06					10						184	133	103	36	50			009		017		027			2					1	274			
06					10						124	124	124	63	63			013		021		055			1					4	250			
06					10						120	120	120	14	33			008		014		008			2					4	284			
06					11						142	163	162	22	22			049		080		066			1					4	261			
06					11						160	160	160	17	25			041		066		044			2					4	254			
06					11						95	95	39	14	32			069		120		060			2					4	274			
06					11						157	156	154	22	45			012		021		017			3					4	268			
06					11						126	126	126	33	33			013		019		026			1					4	245			
06					11						128	128	128	26	26			024		039		040			1					3	257			
06					11						78	92	95	13			3	011	033	017	050	008								267			
06					11						30	32	83	6	6			049		058		019			1					3	188			
06					11						101	101	119	4	4			046		077		013			1					4	264			
06					11						181	181	184	22	62			027		046		038			3					4	268			
06					11						124	124	124	20	20			008		013		011			1					4	236			
06					11						97	97	98	9	9			007		012		004			1					4	272			
06					12						124	89	64	14	48			015		026		013			2					4	286			
06					12						154	156	156	48	181			017		031		052			6					4	286			
06					12						103	103	103	26	26			008		013		013			1					3	264			
06					12						147	147	147	9			2	004	007	006	011	002								4	267			
06					12						154	154	154	9	9			059		102		034			1					4	272			
06					12						107	114	126	71	83			049		073		219			2					4	237			
06					12						105	112	174	9	9			033		054		018			1					4	256			
06					12						124	124	124	8	8			021		033		011			1					4	240			
06					12						140	140	140	17	22			004		007		004								4	262			
06					13						166	166	163	5			1	009	009	016	016	003									281			
06					13						128	128	119												1					3				
06					13						126	126	126	4	4			032		052		009			1					4	258			
06					13						111	73	8	19	39			038		070		046			2					4	289			
06					13						61	61	61	12	12			035		051		026			1					4	236			
06					13						76	71	47	9	13			025		041		013			2					4	260			
06					13						141	141	141	26	30			007		011		010								4	260			
06					14						154	154	154	9	9			011		017		006			1					4	261			
06					14						126	130	128	13	13			030		050		027			1					4	262			
06					14						110	84	33	26	26			016		027		027			1					4	263			
06					14						31	21	8	30	30			029		038		058			1					4	200			
06					14						85	85	85	59	77			009		016		034			2					4	273			
06					15						126	126	126	25	41			007		010		011			2					3	245			
06					15						140	140	142	9	9			015		026		009			1					4	278			
06					15						90	90	96	4	4			031		048		008			1					4	241			
06					15						27	79	81	8	30			031		044		016			2					4	225			
06					16						128	128	128	5	5			019		032		005			1					4	271			
06					16						31	26	5	9	9			020		034		012			1					4	268			
06					16						154	154	154	8	8			017		027		009			1					4	246			
06					16						106	106	106	5	5			028		049		008			1					4	276			
06					17						204	204	202	10			2	009	012	016	022	006									286			
06					17						77	77	18	5	5			032		061		010			1					4	297			
06					17						106	106	106	50	80			032		050		102			2					4	252			
06					18						24	35	64	7	7			014		018		006			1					4	211			
06					18						92	102	102	36	72			012		019		026			2					4	271			
06					19						103	103	103	14	14			029		051		026			1					4	277			
06					20						76	76	44	5	5			032		061		010			1					4	303			
06	2	5	1	1000	2	0	49	52		10029	3		40													02				4				
06	2	5	1	2200	3	0	52	02		10029	30		5													07				4				
06	2	5	2	1220	5	0	52	03		10101	10		40													05				4				
06	2	5	2	1900	11	0	52	35		10101	140															68				4				
06	2	5	2	2025	12	0	49	54		10101	70																			4				
06	2	6	6	2230	5	0	49	51		00100	150												5			59				4			8	
06	2	6	10	2245	1	0	53	60		12010	95												4			53		1		4				
06	2	6	11	0215	2	0	55	37	3	12010	150												5			60				4				
06	2	6	25	1625	3	5	30	49		20124	230												2			68				4				
06	2	6	25	1945	4	5	30	49		20124	170												2			61				4				
06	2	6	30	0210	5	0	45	66		12129	180												2			64		1		4				
06	2	7	3	1442	6	0	51	25		12202	140												2			01				4				
06	2	7	3	1600	7	0	50	38		12202	14												2			03				4				
06	2	7	5	0800	8	0	50	33		11604	150																			4				

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft			
										100-ft				0.01-g/cu m	00.1-in/hr		0.01										
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_O L_O$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	2	7	6	2310	9	0	53	09		11706	140												2			02				4				
06	2	7	18	0715	10	0	54	55		11617	110												2			57				4				
06	2	8	3	0820	1	0	46	61		10102	180													2		60				4				
06	2	8	19	0610	2	0	50	30		10018	150												4	1		02				4				
06	2	9	22	0330	3	0	56	37		10021	170															55				4				
06	2	9	23	2000	4	0	56	05	4	10123	145																			4				
06	2	9	23	2018	5	0	56	05	4	10123	145															52				4				
06	2	9	24	0030	6	0	64	24	4	10123	70															55				4				
06	2	9	24	0700	7	0	53	60	4	10123	10															64				4				
06	2	10	22	2052	1	3	49	02	4	12122	100												4			01				4				3
06	2	11	3	1940	2	0	52	91		10103	100												4			52				4				3
06	2	11	10		1	5	30	50		00202	190												4	1		53		1		4			5	8
06	2	11	12	1932	3	0	52	01		10112	100												4			53				4				3
06	2	11	13	0105	4	0	50	33		10112	100												4			02				4				3
06	2	11	13	0321	5	0	49	50		10112	100												4			03				4				3
06	2	11	26	2200	2	0	53	09		11926	40												4			53		1		4			5	8
06	2	11	27	0420	3	0	51	41		11926	120												5			61				4				8
06	2	11	27	0453	4	0	51	41		11926	120												5			61				4				8
06	2	12	16	2323	5	0	46	60		10016	150												4			71				4				8
06	2	12	17	0012	6	0	46	60	2	10016													4			62				4				8
06	2	12	17	1440	7	3	53	14		10016	75												5			64				4				8
06	3	1	5	1345	6	3	49	01		11814	55												4			55				4				7
06	3	1	10	1730	7	0	43	68		10010	150												4			60				4				8
06	3	1	11	0910	8	0	51	13		10010	91												4			03				4				7
06	3	1	12	0525	9	0	53	09		10112	120												4			03				4				7
06	3	1	14	1040	10	0	53	09		10013	150												5			54				4				7
06	3	1	15	0940	11	0	52	31		12314	100												4			51				4				7
06	3	1	15	1755	12	0	46	65		00123	100												4			52				4				7
06	3	1	19	2355	13	0	41	18		11119	160												4			60				4				7
06	3	1	20	0805	14	0	41	47		11119	140												4			54				4				7
06	3	1	20	1605	15					11219	60												4			03				4				7
06	3	1	27	2118	16	0	45	42	4	10027	50												3			01				4				7
06	3	1	28		18				4	10027	130												7	2		57				4			6	9 3
06	3	1	28	0110	17	0	49	55	2	10027	40												3			65				4				7
06	3	3	21		1	0	35	77		02610	174	173	173	53			11	006	017	011	032	019								4	289			
06	3	3	22	0325	1	0	49	55		11621	150															72				4				
06	3	3	24	0700	2	0	49	55		11724	40															57				4				
06	3	3	25	1245	3	0	43	66		11724	180															54				4				0
06	3	3	26	2025	4	0	52	00	1	10126	65															52				4				0
06	3	3	28	0100	2	0	38	22		11728	107	107	107	21		200	5	009	018	015	030	013	4			51				4	256			8
06	3	4	4	1915	11	0	52	00		10104	80					1							3							4				0
06	3	4	11	2131	1					11711						3							4							4				8
06	3	4	12	0830	2	0	46	60		11711						205							4			59				4				0
06	3	4	12	1930	7	0	52	00		10112	80					5							5			60								8
06	3	4	12	2030	8	0	53	10		10112	62	119	159	17				043	078			045	5			58					262			8
06	3	4	13	0945	12	0	45	64		10112	91	92	95	32		8	7	003	010	006	017	007	4			02					274			8
06	3	4	14	0135	13	0	42	50		10014	150					100							5			60								8
06	3	4	14	0215	14	0	42	46		10014	150					5							5			60								8
06	3	4	14	0415	3					11614	106	106	106	32			8	008	017	013	026	017	4			59				4	242			8
06	3	4	15	0840	15	0	38	24		10014	120					100							4			57								8
06	3	4	24	0206	11					11524						5							4			59				4				8
06	3	4	24	0220	12					11524						200							5			59				4				8
06	3	4	24	0325	13					11524	107	107	107	66				016	036	024	055	065	4			63				4	248			8
06	3	4	24	0610	1	0	52	30		10023	142	142	173	13		320	3	010	014	017	024	009	5			65					266			9
06	3	4	24	0743	14	0	55	14		11524						100										55				4				
06	3	4	24	0800	15					11524						105							4			54				4				8
06	3	4	25	1306	2	3	50	08		10125	74	74	19	4		101	1	026	026	045	045	008	4			52					249			1
06	3	4	25	1350	18	0	42	71		11524						2							4							4				8
06	3	4	25	2030	3	0	53	09		10125	50		100			5							4			53								0
06	3	4	25	2230	4	0	52	30		10125	111	111	111	38		114	9	026	067	041	105	062	9			59					252			9
06	3	4	26	0008	5	0	50	38		10125	102					102							3			61								0
06	3	4	26	0441	6	0	51	46		10125	114	114	112	18		207	4	006	013	011	022	007	4			54					275			9
06	3	4	26	0602	7	0	49	55		10125	87	84	47	9		101	2	025	044	041	072	014	4			57					258			9
06	3	4	28	0600	1					12227	63	45	13	45		100	11	009	020	014	030	027	4			05				4	248			3
06	3	4	28	1115	3					12227	79	78	46	83		200	19	021	054	035	090	120	4			54				4	262			7
06	3	4	30	0304	10	0	53	38		10129	91	83	70	54		305	13	018	034	028	055	061	4			57					248			9
06	3	4	30	0440	11	0	53	47		10129	72	72	72	35		200	9	020	040	030	058	045	4			54					232			9
06	3	4	30	0535	12	0	53	55		10129	60					100							4											9
06	3	5	5	0430	1	0	53	46		11704	140					100							3			67								9
06	3	5	5	0720	12	0	47	40		11604	150					300							4			60				4				7
06	3	5	6	2320	13	0	53	12		11706	120															54	7			4				7
06	3	5	8	1844	2	0	36	69		13008	190					402							3			68								9
06	3	5	8	2305	3	0	36	69		13108	200					505							3			70								9
06	3	5	9	1930	4	0	36	69		13009	190					7							3			56								9
06	3	5	9	2350	5	0	36	69		13109	200												4			62								9

(a) Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude (100-ft)			Flight Distance				Liquid Water Content (0.01-g/cu m)	Nature of Icing (00.1-in/hr)					Meteorological Conditions				Aircraft				
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_u L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (0.01 in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_L A_L$ (a)	V V V (mph)	V_c (a)	A (a)	A_d (a)
06	3	5	10	0320	14	0	53	60		11609					105											61			7	4				7
06	3	5	24	0815	1	0	51	08		10023	171												5			57				4				8
06	3	5	25	2225	2	0	54	20		10125	123												4			53				4				8
06	3	5	26	0002	3	0	54	30		10125	123												4			53				4				8
06	3	5	27	0245	4					10125	120												4			60				4				8
06	3	5	27	0330	5					10125	121												4			60				4				8
06	3	5	27	0505	6					10125	120												4			64				4				8
06	3	5	30	0150	2	0	46	60		00116	85												4			59				4				8
06	3	5	30	1856	1	0	42	71		00116	150												4			62				4				8
06	3	5	31	0058	4	0	49	54		00116	150												4			62				4				8
06	3	5	31	0430	3	0	46	60		00116	60												4			55				4				8
06	3	6	4	1240	1	0	51	41		00117	120												4			57				4				5
06	3	6	4	1500	2	0	53	49	2	00117													4			61				4				5
06	3	6	4	1700	3	0	48	55		00117	100															56				4				5
06	3	6	4	1925	4	0	44	66		00117	160												4			61				4				5
06	3	6	4	2000	5	0	42	70		00117	120												4			52				4				5
06	3	6	4	2025	6	0	41	70		00117	120															51				4				0
06	3	6	7	0020	7	0	53	26		00101	105															54				4				5
06	3	6	12	0002	6				4	12111	75												4			53				4				8
06	3	6	12	0835	7	0	52	16	3	12111	140												4			56				4				8
06	3	6	12	1055	8	0	50	40		12111	140												4			56				4				8
06	3	6	12	1135	9	0	50	44		12111	140												4			55				4				8
06	3	6	12	1150	10	0	50	46		12111	140												4			60				4				8
06	3	6	12	1330	11	0	49	50		12111	140												4			60				4				8
06	3	6	15	2335	8	0	47	60		00101	190												4			62				4				5
06	3	6	21	0430	12	0	50	47		12020	130												4			54				4				8
06	3	6	22	0550	13	0	55	16		12121	140												4							4				8
06	3	6	22	0753	14	0	50	35		12121	140												4			65				4				8
06	3	6	22	0850	15	0	50	38		12121	140												4			65				4				8
06	3	6	22	1233	16	0	50	42		12121	180												4			59				4				8
06	3	6	24	2330	17	0	49	54		12024	90												4			57				4				8
06	3	6	25	0030	18					12024													4							4				
06	3	6	25	0435	1	0	51	36		00100	150												4			60				4				8
06	3	6	26	0147	2	0	51	43		00101	104												4			59				4				8
06	3	6	26	0334	4	0	50	50		00101	104												4			53				4				8
06	3	6	26	0352	3	0	50	47		00101	105												4			56				4				8
06	3	6	27	0803	5	0	45	63		00101	180												4			59				4				8
06	3	6	27	0935	6	0	41	70		00101	181												3			59				4				0
06	3	7	1	0907	19	0	49	55		11530	130												4			57				4				8
06	3	7	3	1020	1	0	50	49		11602	131	131	131	17	21			014		023		015	3			62				4	255			8
06	3	7	3	1035	2	0	50	47		11602	134	134	134	17	30			021		034		023	4			62				4	258			8
06	3	7	3	1216	3	0	52	36		11602	130															55				4				8
06	3	7	4	0128	7	0	53	19		00119	120												4			04				4				8
06	3	7	4	0230	4	0	55	12		11703	140															59				4				8
06	3	7	4	0300	5	0	58	15		11703	140															58				4				8
06	3	7	4	1130	7					11723	144	144	120	65	113			025		043		109	5		4	58				4	261			5
06	3	7	5	0740	8	0	50	50		00119	121												4			55				4				8
06	3	7	5	0803	9	0	49	52		00119	121												4			53				4				8
06	3	7	8	0025	8	0	49	50		12008	154	154	154	13	38			018		028		010	9			60		75		4	256			8
06	3	7	8	0105	9	0	49	45		12008	154	154	154	13	13			007		012		006	4		1	59				4	263			8
06	3	7	9	1220	10	3	51	04		12008	97	97	55	22	30			025		040		034	5		2	57				4	258			8
06	3	7	11	0846	1	0	50	37		11410	155												4							4				7
06	3	7	12	1630	2	3	46	05		11516	150												4			03				4				7
06	3	7	16	1850	3	0	51	03		10116	105												9			55				4				8
06	3	7	16	2125	4	0	53	09		10116	80												4			52				4				8
06	3	7	16	2210	5	0	53	14		10116	100												4			52				4				8
06	3	7	20	0442	1	0	56	13		12119	145												4			57				4				8
06	3	7	20	0820	2	0	52	42		12119	140												4			59				4				8
06	3	7	21	0655	3	0	41	71			150												4			52				4				8
06	3	7	21	0715	4	0	41	71		12119	150												4			52				4				8
06	3	7	22	0035	6					10122	140												4			56				4				8
06	3	7	22	0040	7					10122	140												4			56				4				8
06	3	7	22	0055	8	0	53	31			140												4			56				4				8
06	3	7	22	2330	5	0	53	23		10122	140															55				4				8
06	3	7	24	2005	9	0	52	03		11724	185												4			65				4				8
06	3	7	24	2105	10	0	53	06	2	11724	170												4			60				4				8
06	3	7	29	1820	11	3	52	01		10129	30												4							4				8
06	3	7	30	0700	12	0	47	24		11630	210												4			70				4				8
06	3	7	30	0857	12	0	46	60		10129	180												4			61				4				8
06	3	7	30	1055	13	0	41	70		10129	180												4			60				4				8
06	3	7	30	1137	14	0	41	70		10129	155												4			06				4				8
06	3	7	31	0440	13	0	53	31		11731	120												4			57				4				8
06	3	8	1	2205	15					11731	100												4			55				4				8
06	3	8	2	2055	1	0	54	05		00115	140												4			59				4				5
06	3	8	2	2120	2	0	53	08	2	00115	120												4			57				4				5

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing					Meteorological Conditions					Aircraft				
											100-ft					0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_g t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	3	8	3	0220	3	0	53	28		00115	140												5			55				4		9	5
06	3	8	4	2109	4	0	41	70		10004	150												4			51				4			5
06	3	8	5	0010	5	0	49	49	2	10004	70												4							4			0
06	3	8	5	0540	6	0	50	40		10004	150												4			56				4			5
06	3	8	5	0610	7	0	50	37		10004	150												9			56				4			5
06	3	8	6	0002	9	0	49	55		05105	80												4			53				4			7
06	3	8	6	1652	8	0	51	20		05105	120												4			52				4			0
06	3	8	8	2320	10	0	48	57		10008	150												1			54				4			7
06	3	8	9	0515	11	0	52	25		10008	170															65				4			
06	3	8	14	0750	16	0	32	81			170															54		1		4			8
06	3	8	15	1935	17	3	43	05		11414	180												4			62				4			8
06	3	8	18	1600	6	0	52	00	2	10017	115															01				4			0
06	3	8	16	2300	18					11515	100												9			55				4			8
06	3	8	19	1800	7	0	52	00	1	10118	100															02				4			0
06	3	8	29	0155	4	0	55	32		10129	103	103	103	13	50			008		013		007	4		3	60				4	250		8
06	3	8	29	0240	5	0	55	36		10129	106	106	106	17	17			018		029		019	4		1	60				4	261		1
06	3	8	29	2228	1	0	49	55		10129	100												1			60				4			8
06	3	9	5	0505	9	0	50	21		10004	210												4			67				4			7
06	3	9	10	0120	14	0	50	29		10109	140												4			54				4			7
06	3	9	10	0200	15	0	49	55		10109	140												4			54				4			7
06	3	9	21	0807	1	0	53	30	6	12120	104												9			59	6	0		4		3 9	8
06	3	9	21	0856	2	0	53	32		12120	104												4			56				4			8
06	3	9	21	0910	3				6	12120	106												4			57	6	1		4		4	8
06	3	9	21	1827	4				6	12120	160												4					4		4			8
06	3	9	25	0130	5	0	57	38		10125	100												4			60		1		4			8
06	3	9	25	0200	6	0	57	39	3	10125	105												4			60				4			8
06	3	9	25	0200	7	0	56	40		10125	98												9			60		2		4		9	8
06	3	9	25	0755	8	0	49	58	3	10125	105												4			53				4			8
06	3	9	26	1550	11	3	44	08		11926	169	171	173	52	52			014		022		046	5	2	1	58				1	258	8	8
06	3	9	26	1625	12	3	44	07		11926	176	176	173	13	35			028		047		024	4			59				1	265		8
06	3	9	26	1720	13	3	45	06		11926	145												4			56				1			8
06	3	9	26	1735	14	3	45	08		11926	154	147	90	23	23			023		040		034	4	1	1	58				1	273		8
06	3	9	27	0745	15	0	51	47		11926	121												4			58				1			1
06	3	9	27	0835	16	0	49	51	5	11926	127	127	127	75	100			039		061		185	4		2	57				1	249		8
06	3	9	29	0510	1	0	50	42		10028	150												4			53				4			8
06	3	9	29	0525	2	0	50	42		10028	150												4			54				4			8
06	3	9	29	0550	3	0	50	38		10028	150												4			54				4			8
06	3	9	29	0820	4	0	51	01		10028	115												4							4			8
06	3	9	29	0825	5	0	51	01		10028	115												4							4			8
06	3	9	29	0840	6	0	51	00		10028	100												4			01				4			8
06	3	9	30	0050	7	0	54	03		10129	145												9			61				4			8
06	3	9	30	0125	8				3	10129	145												4			60				4			8
06	3	9	30	0325	10	0	59	13	3	10129	140												4			59				4			8
06	3	9	30	0140	9	0	56	05		10129	145												4			59		1		4			8
06	3	10	1	0637	9	0	50	26		10030	130												4			52				4			8
06	3	10	1	0700	10	0	55	23		10030	130												4			52				4			8
06	3	10	1	1830	11	0	54	05		10102	170												4			54				4			8
06	3	10	5	0015	9	0	62	30		12205	190															62				4			
06	3	10	6	0500	10	0	56	05	5	12205	50															03				4			0
06	3	10	6	0503	11	0	52	37		11505	140												3	1		51				4			8
06	3	10	9	1915	12	0	54	05		10102	165												4			55				4			8
06	3	10	10	0430	1	0	52	22		10009	256	256	260	10	10			007		013		004	4		1	75				4	292		8
06	3	10	11	2350	2	0	64	23		10111	20												4							4			8
06	3	10	12	0100	3	0	64	23	1	10111	1		50										4			58				4			8
06	3	10	12	0710	4	0	53	60		10111	127	128	128	64	85			010		016		042	4		3	69				4	254		8
06	3	10	12	1120	5	0	44	70		10111	127	124	124	29	41			016		025		029	4		2	63				4	245		8
06	3	10	16	1000	14	0	49	55	1	10115	109	109	169	4	4			024		037		006	4		1	55				4	249		8
06	3	10	18	0610	15	0	49	25		11417	156	156	156	14	27			014		024		013	4			60				4	271		8
06	3	10	22	2325	1	0	41	72		11622	150												4			57				4			8
06	3	10	23	0015	2	0	42	70		11622	150												4			57				4			8
06	3	10	23	0750	3	0	50	41		11622	150												4			55				4			8
06	3	10	23	1300	4	3	49	01	2	11622	190		40										4			60				4			8
06	3	10	24	0600	5	0	50	39		11723	120												4			59				4			8
06	3	10	24	1315	6	0	41	70		11720	180		120										4			57				4			8
06	3	11	17	0555	7	0	50	47		10116	100												4			60				4			8
06	3	11	27	1600	9	0	41	72		10129	78												9			01				4			8
06	3	11	27	2220	8	0	51	00	1	10127	100												9			57				4			8
06	3	12	2	0740	5	0	52	24		11501	64	63	63	16	71			005		008		004	4		3	60				4	238		8
06	3	12	2	0740	6	0	53	09		11501	65	64	68	34	38			010		013		020	4			60				4	225		8
06	3	12	2	0740	7	0	50	30		11501	60												4			60				4			8
06	3	12	2	0740	8	0	49	55		11501	60												4			60				4			8
06	3	12	2	1640	9	0	44	70		11501	188	181	181	13	25			008		013		006	4		2	70				4	254		8
06	3	12	7	0130	10	0	46	60		10006	40												4			04				4			8
06	3	12	9	2215	11	0	53	09		10109	87	87	124	4	4			038		055		009	4		1	55				4	227		8
06	3	12	10	0030	12	0	52	24		10109	122	122	122	4	4			015		024		004	4		1	66				4	257		8

[a] Coded item.

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CQ-6 back

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude (100-ft)			Flight Distance				Liquid Water Content (0.01-g/cu m)	Nature of Icing (00.1-in/hr)					(0.01)		Meteorological Conditions				Aircraft				
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_cD_cD_c$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_tA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	3	12	10	0300	13	0	51	32		10109	53	40	10	34	34			024	035	054			5	1	68				4	227			8
06	3	12	10	0830	14	0	48	57		10109	100												4		60				4				8
06	3	12	10	1000	15	0	45	62		10109	100												4		57				4				8
06	3	12	11	0015	17	0	34	67		13310	180												4		54				4				8
06	3	12	12	0505	7	0	49	68		10100	97	97	98	60	60			038	050	142			5	1	65				4	211			8
06	3	12	12	1215	8	0	45	69		10111	98	98	98	4	4			013	019	003			4	1	59				4	227			8
06	3	12	13	2020	1	0	47	70		10113	185												5		74				4				8
06	3	12	14	0520	2	0	64	24		10113	40												4		64				4				8
06	3	12	14	1525	3	0	44	71		10113	60												5		59				4				8
06	3	12	14	2300	12	0	60	15		10114	160	160	160	33	47			008	014	014			5		76				4	282			8
06	3	12	15	0455	13	0	60	44		10114	120	120	123	17	17			011	019	012			5	1	76				4	256			8
06	3	12	15	1110	14	0	50	66		10114	102	106	111	137	216			014	022	116			7	8	65				4	249			8
06	3	12	15	1230	15	0	50	66		10114	106	106	106	29	38			027	043	050			4	2	65				4	251			8
06	3	12	15	1255	16	0	50	66		10114	107	127	151	46	46			022	035	064			7	1	70				4	253			8
06	3	12	19	1406	2	0	51	22		10117	100												4		02				4				3
06	3	12	19	1504	3	0	50	28		10117	100												4		02				4				8
06	3	12	19	1640	4	0	50	32		10117	105	105	105	47	47			024	039	071			5	1	51				4	256			8
06	3	12	19	2255	5	0	48	57		10117	45	45	45	12	25			003	004	002			4	2	62				4	246			8
06	3	12	19	2320	6	0	46	60	4	10117	40		80										4		67	1			4				8
06	3	12	20	1700	17	3	50	09		10019	39	17	9	17	23			019	025	022			4	2					4	200			0
06	3	12	24	0830	1	0	53	09		10023	30		20										4		53				4				8
06	3	12	24	2255	3	0	53	09		10124	45												4		56				4				8
06	3	12	28	0258	4	0	51	25		10127	103	107	109	30	73			018	029	029			4	3	55				4	256			8
06	3	12	28	0508	5	0	51	34		10127	107	107	107	22	39			008	013	012			4	2	56				4	259			8
06	3	12	28	0810	6	0	49	51		10127	102	102	101	18	18			033	056	037			4	1	61				4	271			8
06	3	12	28	0840	7	0	49	54		10128	52	45	11	21	21			046	076	064			4	1	59				4	250			8
06	3	12	28	0950	8	0	49	55		10128	31	39	81	7	7			018	023	008			4	1	62				4	205			8
06	3	12	29	0750	1	0	54	28		10028	120												5		65				4				8
06	3	12	30	0015	12	0	43	37		11830	154	154	154	26	26			021	034	033			4	1	59				4	259			8
06	3	12	30	2032	10	0	49	55		11830	40	47	100	7	7			077	100	033			4	1	54				4	207			8
06	3	12	30	2310	11	0	43	37		11830	150												4		62				4				8
06	3	12	31	0320	2	0	45	59		10130	80												4		64				4				1
06	3	12	31	0450	3	0	44	63		10130	120												4		70				4				8
06	3	12	31	0655	13	3	49	01	2	11830	150												4		60				4				8
06	4	1	2	2320	14	0	53	09		11902	80		120										4		05				4				0
06	4	1	3	0245	4	0	50	48		11403	150												4		70				4				8
06	4	1	3	0245	15					11902	137												4		55				4				8
06	4	1	3	1030	16	0	44	70		11902	101	107	114	133	208			041	059	346			5	5	56				4	225			8
06	4	1	3	1426	5	3	49	01		11403	40												4						4				8
06	4	1	4	1552	6	3	49	01		11403	80												4		60				4				1
06	4	1	4	1810	7	3	42	13		11403	170												4		80				4				8
06	4	1	4	1830	8	3	42	13		11403	70												4		60				4				8
06	4	1	5	1515	9	3	42	13		11505	165												4		80				4				8
06	4	1	5	1707	10	3	49	01		11505	40												4		55				4				8
06	4	1	5	2150	11	0	55	06		11505	50												9		55				4				8
06	4	1	8	0225	17	0	41	53		10007	106	106	104	4	40			053	080	013			4	1	60				4	239			8
06	4	1	8	0300	18	0	41	50		10007	150												4						4				8
06	4	1	13	0020	10	0	64	23		10112	40												4		59				4				8
06	4	1	13	0158	11	0	64	23		10112	47	105	141	11	40			042	059	029			4	2	55				4	220			8
06	4	1	17	0417	12	0	52	21		10116	140												4		64				4				8
06	4	1	17	1212	16	0	46	60		10116	84	85	103	34	34			022	036	048			4	1	63				4	256			8
06	4	1	19	1800	12	3	51	01		00101	100												4		53				4				9
06	4	1	28	1425	6	3	38	22		00118	15														64				4				8
06	4	1	28	1630	7	3	38	22		00118	175												5		74				4				8
06	4	1	30		8					00119	100														55				4				0
06	4	2	8	1640	4	3	42	13		11407	111	89	45	13	43			014	024	013			4	2	66				4	259			8
06	4	2	9	1520	5	3	42	13		11509	116	133	144	32	50			010	018	020			4	2	56				4	271			8
06	4	2	9	2155	6	0	52	05		11509	105												4		58				4				8
06	4	2	10	0030	7	0	52	14		11509	100												4		59				4				8
06	4	2	10	0630	8	0	50	40		11509	103	103	103	39	39			010	016	025			4	1	59				4	259			8
06	4	2	10	0650	9	0	50	47		11509	105												5		57				4				8
06	4	2	10	0800	10	0	49	55		11509	105	105	97	48	114			025	041	075			5	4	61				4	263			8
06	4	2	10	0905	11	0	47	57		11509	96	96	96	24	88			046	071	071			4	6	60				4	240			8
06	4	2	10	1025	12	0	46	65		11509	80												4		66				4				8
06	4	2	11	1530	14	0	58	50		10110	140												4		68				4				3
06	4	2	13	1255	13	0	52	00		11413	40												4		04				4				8
06	4	2	15	0050	14	0	51	22		11515	100												4		54				4				0
06	4	2	16	0105	15	0	50	25		11515	100												5		58				4		1	9	7
06	4	2	16	0105	16	0	50	25		11515	100												5		58				4		1	9	7
06	4	2	16	0150	17	0	50	30		11515	100												5		60				4				7
06	4	2	22	1925	3					11522	73												4		54				4				0
06	4	2	22	2124	4					11522	142	61	37	28	75			019	025	026			4	3					4	236			3
06	4	2	23	1034	5					11522	101	101	103	8	8			038	056	019			4	1					4	235			3
06	4	2	24	0725	7	0	53	09		10024	30												4		57				4				3
06	4	2	25	0930	8	0	52	05		10024	94												4		58				4				3

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude				Flight Distance				Liquid Water Content		Nature of Icing					Meteorological Conditions					Aircraft				
											100-ft								0.01-g/cu m		00.1-in/hr		0.01												
	t_Y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$l_o l_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_A A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	4	2	25	0955	9	0	52	05		10024	80	69	18	17	38			031		049		032	4	3						4	256			3
06	4	2	26	2040	10	0	52	05		10126	50												4			59				4				3
06	4	2	27	0930	16	0	45	63		10126	120												4			64				4				3
06	4	2	27	1715	15	0	44	65		10126	128	128	128	20	71			053		079		067	5	3						4	235			3
06	4	3	2	1540	17	3	49	01		11502	45												4			52				4				0
06	4	3	2	1938	18	3	49	01		11502	50												4			52				4				3
06	4	3	7	1919	6	3	49	01		11507	102	134	166	21	21			018		028		023	3	1		58				4	246			3
06	4	3	8	1010	8	0	44	66		11507	40												3			61				4				3
06	4	3	8	1102	9	0	43	69		11507	45												3			61				4				0
06	4	3	11	2137	10	0	45	42		10011	130												4			64				4				0
06	4	3	13	1550	14	0	52	00		10113	20												4			01				4				0
06	4	3	13	2005	15	0	52	00		10113	102	102	103	38	38			020		036		049	4	1		13				4	283			8
06	4	3	14	1047	17	0	45	64		10114	98	100	100	18	85			036		061		041	4	2		57				4	269			8
06	4	3	18	0030	1	0	52	22		10118	98	98	98	26	38			023		037		037	4	2		59				4	256			8
06	4	3	18	0130	2	0	53	25		10118	140												4			68				4				8
06	4	3	18	2000	19	0	42	04		10118	85	85	85	22	31			030		050		042	4	2		55				4	268			8
06	4	3	18	2025	20	0	53	06		10118	86	72	45	40	40			044		074		111	5	1		57				4	268			8
06	4	3	27	0042	1	0	48	40		11426	190												5			78				4				8
06	4	4	4	1200	2	3	51	05		10003	11												4			55				4				8
06	4	4	4	1230	3	3	51	05		10003	11												4			55				4				8
06	4	4	11	0755	4	0	49	53		10110	80																			4				
06	4	4	11	1255	5	0	42	70		10110	120															56				4				8
06	4	4	11	2130	1	0	41	72		10011	116	130	148	13	13			024		039		019		1		03				4	256			0
06	4	4	11	2230	2	0	43	68		10011	150	148	150	18	18			007		012		008		1		54				4	276			3
06	4	4	11	2315	3	0	45	64		10011	150															54				4				3
06	4	4	12	0223	4	0	49	54		10011	116	131	130	17	17			016		024		016		1		55				4	252			3
06	4	4	14	0245	5	0	50	33		10014	120															54				4				3
06	4	4	15	0615	6	0	49	55	2	10014	56	26	12	30	30			018		028		034		1		60				4	260			3
06	4	4	24	0052	1	0	41	72		11423	110																			4				3
06	4	4	24	0140	2	0	41	70		11423	115															03				4				3
06	4	4	24	0225	3	0	44	65		11423	150															55				4				3
06	4	4	26		4	0	54	17		11525	120																			4				3
06	4	4	26	0110	5	0	54	20		11525	120															51				4				3
06	4	5	5	0140	1	0	46	65		11404													4			56				4				2
06	4	5	5	1626	2	3	49	01		14404													4							4				7
06	4	5	6	0135	4	0	53	09		11506	56	87	110	24	24			020		030		031	4	1		60				4	243			7
06	4	5	7		6						101	100	100	25	25			017		027		026		1						4	246			
06	4	5	7	0945	5	0	49	55		11506	98	101	101	78	123			008		014		043	4	5		55				4	246			7
06	4	5	7	1300	7	0	41	70		11506													4			60				4				7
06	4	5	10	0843	3	0	44	65		11509	140												4			60				4				8
06	4	5	10	0925	4	0	43	68		11509	140															61				4				8
06	4	5	10	2135	10	0	53	12		10110													4			57				4				5
06	4	5	10	2230	11	0	52	18		10110	119	119	119	4	4			044		072		012	4	1		58				4	256			1
06	4	5	10	2255	12	0	51	21		10110	119	124	120	36	36			018		028		042	4	1		60				4	241			5
06	4	5	10	2256	1	2	23	16		00108	165												3			53				3				2
06	4	5	11	0610	13	0	48	62		10110	118	118	118	4	4			032		052		009	4	1		55				4	260			5
06	4	5	11	0630	14	0	46	60		10110													4			55				4				5
06	4	5	11	0643	15	0	46	61		10110	124	123	123	9	71			021		035		011	4	3		55				4	266			5
06	4	5	11	2345	7	0	49	55		10011	114	93	46	17	17			048		080		053	4	1		53				4	259			8
06	4	5	11	2345	12	0	49	55		10011	83	83	83	25	80			031		048		047	4	4						4	254			8
06	4	5	18	2320	2	0	05	01		15016	184	184	192	10	10			029		055		019	4	1		55				3	298		7	3
06	4	5	19	0315	3	3	00	10		15016	175												4			55				3				8
06	4	5	19	0513	4	0	05	05		15016	195												4			59				3				8
06	4	5	19	0513	5	0	05	05		15016	204	204	204	13	13			023		037		018	4	1		59				3	253			8
06	4	5	20	0742	7	3	00	10		15119	166												4			02				3				8
06	4	5	20	1625	8	0	10	13	7	15119	185												4			56	7			3				8
06	4	5	20	1651	9	0	14	15		15119	206												4			60	4			3				8
06	4	5	24	0205	3	0	48	30		10023	135	135	135	30	72			006		009		009	4	4		56				4	255			8
06	4	5	24	0342	4					10023	135	135	135	13	13			008		014		007	4	1		56				4	262			8
06	4	5	24	0925	9	0	47	68		11524	180												4			60				4				8
06	4	5	24	0945	5	0	52	00		10023	120	81	46	27	72			010		017		018	4	3		59				4	271			8
06	4	5	24	2358	8	0	64	23		11524	151	151	151	34	51			011		019		025	4	2		65				4	257			8
06	4	5	26	0505	9	0	49	55		10125	127	128	171	8	8			046		073		025	4	1						4	249			8
06	4	6	4	0410	18	0	52	32		11403	148	145	145	64	118			014		025		055	4	2						4	295			8
06	4	6	4	0435	19	0	52	31		11403	130												4			52				4				8
06	4	6	5	2308	10	0	53	56		07015	150												4			62	4			3				8
06	4	6	6	1850	11	0	52	01		07106	105												4			60	6			3				8
06	4	6	6	1914	12	0	52	03		07106	105												3			60	6			3				8
06	4	6	7	0510	13	0	53	60		07106	140												9			58				3				8
06	4	6	7	0640	14	0	52	64		07106	100												4			56				3				8
06	4	6	7	0725	15	0	50	66		07106	100												4			57				3				8
06	4	7	2	2225	3	0	45	64		00100	150												4			02				4				0
06	4	7	2	2235	4	0	45	64		00100	150												4							4				3
06	4	7	2	2320	2	0	51	45		00620	157	157	157	44	44			012		021		037	3	1		53				3	266			3
06	4	7	4	2105	5	0	53	15		00101	100												4			02				4				3

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude				Flight Distance				Liquid Water Content		Nature of Icing						Meteorological Conditions					Aircraft				
											100-ft								0.01-g/cu m		00.1-in/hr		0.01													
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_w R_w R_w$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_{ct} (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	4	7	6	0425	5	0	52	13		07050	168	168	168	9	23			011		019		006	4	2		62				3	272		3	
06	4	7	7	1220	8	3	51	05		00100	157	157	157	20	20			013		019		016	4	1						4	241		3	
06	4	7	9	0006	12	0	51	46		07080	160	160	160	5	5			003		006		001	4	1		58				3	278		3	
06	4	7	10	0015	1	0	46	57		10009	148												4			59				4			7	
06	4	7	10	0025	14	0	30	24		07109	126	126	126	21	21			017		028		023	3	1		55				3	249		3	
06	4	7	10	0510	16	0	51	39		06010													3			52				3			3	
06	4	7	11	0135	9	0	48	58		00114	86	86	37	5	5			067		120		020	4	1		56				4	284		0	
06	4	7	11	1945	2	0	58	07		10111	170												4			66				4			7	
06	4	7	11	2234	3	0	63	21		10111	110												4			59				4			7	
06	4	7	18	2230	13	0	46	60		00100	190												4			69				4			9	
06	4	7	19	0122	14	0	49	57		00100	150												4			56				4			3	
06	4	7	19	0515	15	0	51	28		00100	150												4			54				4			3	
06	4	7	22	0758	4	0	49	57		10121	150	147	144	52	52			020		033		067	4	1		59				4	259		3	
06	4	7	23	2310	13	0	49	55		11423	110												4			55				4			3	
06	4	7	31	2232	9	0	51	25		07131	120												4			60				3			8	
06	4	8	2	2230	4	0	64	23	2	10102	60												4			02				4			8	
06	4	8	3	0018	5	0	64	23	1	10102	100												4			54				4			8	
06	4	8	3	0037	6	0	63	27		10102	123	123	123	9	9			032		053		017	4	1		56				4	264		8	
06	4	8	3	0140	7	0	62	33		10102	125	165	160	111	116			040		064		281	7	1		59				4	257		8	
06	4	8	3	0601	8	0	53	61		10102	160												4			60				4			8	
06	4	8	5	0637	9	0	41	71		11400	133	134	133	49	76			020		034		061	4	2		54				4	268		8	
06	4	8	6	0409	11	0	49	43		11400	173	173	173	10	29			066		120		041	5	2		61				4	289		8	
06	4	8	6	0447	12	0	49	37		11400	170												4			59				4			8	
06	4	8	6	0545	13	0	49	32		11400	170												4			62				4			8	
06	4	8	6	1011	10	0	48	55		11400	174	174	174	18	18			051		089		059	4	1		66				4	276		8	
06	4	8	14	0650	7	0	53	09	2	10013	100		20										4							4			0	
06	4	8	17	0030	8	0	49	52		10017	150												4			57				4			8	
06	4	8	26	0050	1	0	49	55		00100	190												9			70				4			3	
06	4	8	27	0655	2	0	53	09		00100	190												4			69				4			3	
06	4	8	28	1940	3	0	56	05		00101	165												4			57				4			3	
06	4	8	28	2020	4	0	56	05		00101	168	168	168	9	18			014		023		008	4	2		56				4	272		3	
06	4	8	28	2040	5	0	56	05		00101	165												4			56				4			3	
06	4	8	28	2320	6	0	63	20		00101	100												4			00				4			3	
06	4	8	29		9					00101	145	145	145	29	38			059		094		110		2						4	250			
06	4	8	29	0100	7	0	64	19		00101	148	148	148	20	20			015		023		019	4	1		53				4	239		3	
06	4	8	29	0120	8	0	64	19		00101	140												4			57				4			3	
06	4	8	29	0255	10	0	63	27		00101	140												4			60				4			3	
06	4	8	29	0340	11	0	61	44		00101	140												5			64				4			3	
06	4	8	29	0545	12	0	54	57		00101	140												4			59				4			3	
06	4	9	1	0445	3	0	55	17		06113	120												4			53				3			8	
06	4	9	1	0915	13	0	49	59		00115	110	110	112	36	81			017		027		037	4	4		55				4	248		3	
06	4	9	5	1943	14	0	65	18		00101	105												4			52				4			3	
06	4	9	7	0105	1	0	45	63		00114	132												4			54				4			8	
06	4	9	8	0740	2	0	52	20		00114	190												4			69				4			8	
06	4	9	9	2150	3	0	54	08		00115	125												4			62				4			8	
06	4	9	13	1920	4	3	49	01	1	00115													4			52				4			8	
06	4	9	13	2000	5	0	56	05		00115	145												4			64		8		4			8	
06	4	9	16	2147	3	0	53	08		10116	87												4							4			8	
06	4	9	17	0935	4	0	55	64		10116	180												4			67				4			8	
06	4	9	17	1043	5	0	42	71		10116	180												4			58				4			8	
06	4	9	17	1055	6	0	41	70		10116	180												5			58				4			8	
06	4	9	18	2245	6	0	49	55		00100	170												4			65				4			8	
06	4	9	19	0500	7	0	41	70		10019	170												4			57				4			8	
06	4	9	19	1210	7	3	50	15		00100	115												4			52				4			8	
06	4	9	20	0145	8	0	52	40		00101	120												5			54				4			8	
06	4	9	20	1330	8	3	50	10		10019	90												4			57				4			8	
06	4	9	21	0905	9	0	53	60		00101	120												4			55				4			8	
06	4	9	21	0935	10	0	46	63		00101	120												4			56				4			8	
06	4	9	21	1820	9	0	52	01		10121	70												4			56				4			8	
06	4	9	21	2320	10	0	64	23		10121	60												4			56				4			8	
06	4	9	22	0100	11	0	64	23		10121	50												4			60				4			8	
06	4	9	22	0155	12	0	64	23		10121	100												4			61				4			8	
06	4	9	22	0250	1	0	55	22		07121	140												4			56				3			7	
06	4	9	22	0500	2	0	55	37		07122	140												4			55				3			7	
06	4	9	22	0625	13	0	53	60		10121	100												4			57				4			8	
06	4	9	22	0900	14	0	47	71		10121	100												5			55				4			8	
06	4	9	24	0330	11	0	43	49		00114	230												4			67				4			8	
06	4	9	24	0400	12	0	43	49		00114	230												4			67				4			8	
06	4	9	24	0430	13	0	43	49		00114	230												4			67				4			8	
06	4	9	27	0050	16	0	64	23	2	11527	140												4			79				4			8	
06	4	9	27	2035	15	0	55	03		11527	145												4			67				4			8	
06	4	9	28	0600	17	0	60	50		11527	120												4			62				4			8	
06	4	9	28	0615	18	0	59	51		11527	120												4			62				4			8	
06	4	9	28	1020	19	0	49	67		11527	120												4			66				4			8	
06	4	9	28	1033	20	0	49	68		11527	120												4			66				4			8	

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft				
											100-ft					0.01-g/cu m	00.1-in/hr		0.01										
	t_y	t_m	t_d	$t_1t_1t_1t_1$	N	O (a)	$L_aL_aL_a$	L_oL_o	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_tA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	4	9	28	1035	21	0	49	68		11527	120											4			65				4				8
06	4	9	28	1045	22	0	49	68		11527	120											4			65				4				8
06	4	9	28	1055	23	0	47	68		11527	120											4			65				4				8
06	4	9	28	1115	24	0	46	69	3	11527	120											7			61	5			4			9	8
06	4	9	28	1200	25				3	11527	120											5			53				4				8
06	4	10	31	0915	5	0	53	66		10130	100											5			52				4				8
06	4	10	10	0400	14	0	52	38		00101	80											4			53				4				8
06	4	10	10	0930	15	0	49	55	1	00101	110											4			55				4				8
06	4	10	10	2205	9	0	42	71		10010	130											4			02				4				0
06	4	10	11	0115	11	0	52	17		10010	130											4			54				4				8
06	4	10	11	0215	10	0	49	46		10010	130											4			55				4				3
06	4	10	17	2130	2	0	53	09	2	11517	133	123	81	19	19			010		018		009		1	61				4	286			7
06	4	10	19	2300	3	0	41	73		10019	50														51				4				7
06	4	10	20	0105	2	0	52	14		10119	126	126	126	86	151			016		026		086	4	5					4	258			8
06	4	10	21	2022	4	0	56	04		10121	201	199	201	27	27			041		081		068		1	57				4	323			7
06	4	10	22	0240	5	0	62	18		10121	137	171	181	94	116			044		075		264		2	66				4	268			8
06	4	10	22	1225	1	0	50	05		00022	115												5		56				3				8
06	4	10	24	0018	7					10023	153	154	154	63	140			040		068		160	6	2	64				4	271			8
06	4	10	24	0300	8	0	51	30		10023	150	150	150	22	103			010		017		011	4	3	59				4	269			8
06	4	10	24	1130	2	3	59	18		00024	130												5						3				8
06	4	10	24	2115	5	0	53	06		11524	165												4		80				4				8
06	4	10	25	0425	6	0	50	33		11524	142												4		67				4				0
06	4	10	27	1600	3	3	54	10	2	14626	110		100										4	1	52		28		3			1	8
06	4	10	31	0120	1	0	64	23		10130	60												4						4				3
06	4	10	31	0315	7	0	51	52		11431	109	109	109	8	8			018		028		009	4	1	68				4	246			8
06	4	10	31	0405	8	0	51	52		11431	171	173	173	62	109			036		065		142	4	3	58				4	284			8
06	4	10	31	0510	2	0	59	48		10130	141	141	141	9	9			036		061		020	4	1	57				4	270			3
06	4	10	31	0518	9	0	54	38		11431	170												4		54				4				1
06	4	10	31	0640	3	0	57	53		10130	118	115	83	15	15			025		047		024	5	1	05				4	303			3
06	4	10	31	0825	4	0	53	61		10130	107	109	111	29	80			018		028		028	5	4					4	252			8
06	4	10	31	0930	6	0	53	66		10130	111	109	109	50	88			041		064		129	5	2	52				4	251			8
06	4	11	4	2235	1	0	42	45		15000	150												4		54				3				7
06	4	11	5	2120	11	0	41	73		10005	39	39	89	4	4			075		120		020	4	1	55				4	253			1
06	4	11	6	0500	2	3	17	24		15000	195												3		54				3				7
06	4	11	6	1945	3	0	51	02		00101	105												3		60				4				8
06	4	11	7	2345	12	0	62	18		10107	180												4		79				4				8
06	4	11	12	1140	13	0	52	00		10017	110												4		55				4				8
06	4	11	13	0055	3	0	40	24		06300	160												4		65				3				7
06	4	11	14	0506	4	0	47	39		00116	210												4		83				4				8
06	4	11	14	2226	14	0	57	30		10100	140												4		52				4				3
06	4	11	14	2322	15	0	57	30		10100	140												4		52				4				3
06	4	11	16	1937	5	3	49	01		00115	140												3		69				4				8
06	4	11	17	0544	1	0	52	20		10000	190												4		71				4				8
06	4	11	17	0935	6	0	41	57		00115	140												4		66				4				8
06	4	11	17	1235	7	0	41	70		00115	140												4		65				4				8
06	4	11	18	0305	4	0	36	38		15500	140												3		54				3				7
06	4	11	18	1455	2	3	50	06		10100	45	47	22	73	99			020		032		090	4	3	57				4	259			8
06	4	11	19	0022	3	0	51	32		10100													4		64				4				8
06	4	11	19	0815	4	0	49	55	1	10100	79	107	154	16	24			064		100		066	4		57				4	243			8
06	4	11	20	2155	1	0	48	57		06420	190												4		65				3				3
06	4	11	22	0100	1	0	52	15	3	00117	100												4		69	8			4			0	8
06	4	11	22		2	0	51	28	3	00117	102												4		69	8			4			8	8
06	4	11	23	0021	2	0	53	10		06322	120												4		66				3				8
06	4	11	23	0910	3	0	49	55	2	06322	60												4		00				3				8
06	4	11	25	1935	3	0	52	00		10125	105												4		66				4				8
06	4	11	25	2000	1	0	52	00		10125	174	196	196	28	127			032		057		057	3	4	58				4	282			8
06	4	11	25	2030	5	0	55	04		10125	165												3		67				4				8
06	4	11	26	0332	4					10125	140												4		74				4				8
06	4	11	26	0723	5					10125	140												4		84				4				8
06	4	11	26	1004	6	0	47	68		10125	142	142	142	29	29			030		055		054	3	1	71				4	285			8
06	4	11	26	1053	7	0	44	70		10125	142	142	147	29	53			026		048		048	3	3	71				4	287			8
06	4	11	27	2012	8	0	56	05		10127	107	109	111	12	12			035		052		027	4	1	76				4	236			8
06	4	11	27	2310	9				2	10127	157	154	109	10	10			019		036		012	4	1	76				4	306			8
06	4	11	28	0910	11	0	47	68		10127	180												4		73				4				0
06	4	12	5	0803	7					11405	210												4		71				4				8
06	4	12	5	2345	6	0	73	41	1	11405	80		90										4		56				4				8
06	4	12	6	1543	8	3	42	13	2	11405	115												4		66				4				8
06	4	12	7	0328	9	0	64	23	1	11507	40		140										4		80				4				8
06	4	12	8	0900	10	0	49	66		11507	180												7		72				4				8
06	4	12	15	0025	1					00114	130												7		63				4				8
06	4	12	16	0820	13	0	39	75			140												4		70				4				0
06	4	12	18	0050	2	0	46	61		00116	130												4		55				4				8
06	4	12	18	0155	14	0	41	72		16600	105	120	165	12	12			045		071		035	4	1	60				4	246			0
06	4	12	18	0212	15	0	42	70		16600	190												4		67				4				0
06	4	12	18	0530	16	0	49	55	2	16600	25	17		21	21			073		099		099	5	1	56				4	212			8

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude				Flight Distance				Liquid Water Content		Nature of Icing				Meteorological Conditions					Aircraft				
											100-ft								0.01-g/cu m		00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$		DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_c (a)	A (a)	A_d (a)
06	4	12	18	0720	3	0	51	25		00116	170													4			73				4			8
06	4	12	18	0800	17	0	49	55	1	16600	20													5			57				4			8
06	4	12	18	1313	18	0	52	21		16600	153	153	153		10	10			017		032		010	4	1		64				4	290			0
06	4	12	21	1730	1	0	45	69		00100	154	157	157		41	41			037		065		097	4	1		74				4	274			8
06	4	12	22	0220	2	0	57	37		00100	194	194	194		15	15			017		032		016	4	1		72				4	306			8
06	4	12	22	0600	3	0	57	14		00100	194	194	194		25	30			010		020		016	4			73				4	300			8
06	4	12	22	0815	5	0	52	00	2	00100	131	58	3		31	52			061		120		120	4	2		54				4	309			0
06	4	12	22	1010	6	0	50	04		00100	30	74	134		8	31			080		120		041	9	2		60				4	236	9		8
06	4	12	23		7	3	50	03		00101	30													9			52				4		9		8
06	4	12	23		8	3	50	03		00101	60													9			55				4		9		8
06	4	12	23		9	3	50	03		00101	55	55	53		51	102			033		049		097	9	5		56				4	235	9		8
06	4	12	23		10	3	50	03		00101	70	123	153		13	30			050		080		040	9	2		59				4	255	9		8
06	4	12	23		11	3	50	03		00101	84	39	4		23	45			040		069		058	9	3		62				4	272	9		8
06	4	12	23	2055	12	0	53	08	2	00101	65	40	11		22	39			054		089		075	9	2		54				4	261			8
06	4	12	23	2135	4	0	42	72		00100	130													4			66				4				8
06	4	12	23	2300	5	0	45	71		00100	150													4			74				4				8
06	4	12	24	0315	13	0	48	36		00101	120													4			58				4				8
06	4	12	24	0438	6	0	56	27		00100	210													4			74				4				8
06	4	12	24	0505	14	0	46	45		00101	120	120	120		51	92			025		044		081	4	2		58				4	277			8
06	4	12	24	0605	15	0	45	49		00101	120	120	120		23	23			015		027		023	4	1		63				4	281			8
06	4	12	24	0605	16	0	44	52		00101	120	120	120		33	62			017		030		035	4	2		63				4	285			8
06	4	12	24	1200	7	3	50	10		00100	30													4			55				4				8
06	4	12	26	0500	8	0	53	31		00115	100													4			55				4				8
06	4	12	26	0930	9	0	49	54		00115	70													4			65				4				8
06	4	12	27	2220	1	0	56	05		11727	145													4			64				4				3
06	4	12	28	0003	10	0	41	72		11628	150													4			65				4				8
06	4	12	28	0035	11	0	41	70		00116	150													7			66				4				8
06	4	12	28	0214	12	0	44	57		00116	170													4			73				4				8
06	4	12	30	2125	13	0	53	09		00117	90													4			60				4				8
06	4	12	31	0254	14	0	54	29		01117	120													4			66				4				8
06	4	12	31	0755	15	0	48	59		01117	120													7			66				4				8
06	5	1	2	1910	2	3	50	01	1	11702	20		100											4			64				4				3
06	5	1	2	2200	3	0	53	09	2	11702	80		10											4			64				4				3
06	5	1	6	0137	19	0	50	33		10106	105													7			56			8	4				3
06	5	1	6	0615	20	0	50	33		10106	62	44	44		115	133			046		064		334	7	2		51			8	4	222			3
06	5	1	6	0800	21	0	49	55		10106	100													4			54	1	8		4				3
06	5	1	6	0800	22	0	47	62		10106	100													4			55	1	8		4				3
06	5	1	6	0800	23	0	47	68		10106	102													7			58	1	8		4				3
06	5	1	6	0800	24	0	44	70		10106	100													7			60	1	8		4				3
06	5	1	6	1200	25	0	42	71		10106	103													4			64	1	8		4				3
06	5	1	6	1630	11	3	51	04		10106	81													4			01				4				3
06	5	1	6	1640	12	0	52	00	2	10106	63	21	4		24	38			030		054		045	4	2		02				4	285			3
06	5	1	6	1655	13	0	52	00	2	10106	45		20											4			04				4				3
06	5	1	6	2305	14	0	52	00	1	10106	40													4			01				4				3
06	5	1	6	2332	15	0	52	05		10106	105													4			55				4				3
06	5	1	6	2332	16	0	52	05		10106	127	127	127		19	33			041		073		049	1			55	6	1		4	282			3
06	5	1	6	2332	17	0	52	05		10106	127	127	127		24	47			022		039		033	1	2		55	6	1		4	283			3
06	5	1	6	2332	18	0	52	05		10106	122	126	127		14	57			009		016		005	1	2		55	6	1		4	286			3
06	5	1	8	0910	17	0	50	45		11607	130													4			63				4				8
06	5	1	8	1610	18	3	49	01		11607	40													4			60				4				8
06	5	1	10	2240	26	0	53	14	2	11710	70													4			52				4				3
06	5	1	10	2252	27	0	53	11	2	11710	40													4			56				4				3
06	5	1	16	1735	28	0	53	12	1	10115	80													4			67				4				8
06	5	1	17	0220	29	0	49	58		10115	140													4			67				4				8
06	5	1	17	0305	30	0	50	68		10115	160													4			70				4				
06	5	1	22	2130	31	0	51	33		10121	125													4			53				4				
06	5	1	22	2230	32	0	50	37		10121	120													4			51				4				
06	5	1	22	2300	33	0	50	39		10121	120													4			53				4				
06	5	1	25	2330	34	0	52	15		10125	100													4			67				4				8
06	5	1	26	0730	35	0	49	59	3	10125	100													4			67				4				3
06	5	1	29	0350	36	0	45	42		11628	210													4			82				4				8
06	5	1	29	0450	37	0	47	35		11628	210													4			81				4				8
06	5	1	30	2110	38	0	54	04		11730	130													4			64				4				8
06	5	1	30	2140	39	0	55	07		11730	125													4			67				4				8
06	5	1	31	0455	40	0	55	58		11730	120													4			72				4				8
06	5	1	31	0530	41	0	53	60		11730	100													4			75				4				8
06	5	2	6	0730	42	0	47	27		11605	190													4			60				4				8
06	5	2	6	0820	43	0	47	22		11605	190													4			60				4				8
06	5	2	6	1152	44	3	49	01	2	11605														4			58				4				8
06	5	2	7	1930	45	0	54	03		11707	145													4			66				4				8
06	5	2	7	2130	46	0	56	05		11707	145		165											4			73				4				8
06	5	2	7	2350	47	0	60	15		11707	165													4			72				4				8
06	5	2	8	0045	48	0	63	23		11707	165													4			72				4				8
06	5	2	8	0140	49	0	64	23	2	11707														4			65				4				8
06	5	2	8	0545	50	0	52	51		11707	100													4			62				4				8

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing						Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr		0.01													
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$l_o l_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_a A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
06	5	2	8	0610	51	0	51	51		11707	100												4		62				4			8
06	5	2	13	2070	4	0	53	09		10113	40		120										4		61				4			8
06	5	2	14	0440	5	0	46	46		10113	123	123	123	24	58			028		050		042	5	2	58				4	292		8
06	5	2	14	0540	6	0	44	56		10113	81	81	81	14	14			056		102		051	4	1	56				4	285		8
06	5	2	14	0612	7	0	44	57		10113	80												4		65				4			0
06	5	2	15	2215	8	0	46	60		10015	171	171	171	23	68			022		038		032	4	4	76				4	273		8
06	5	2	16	0240	9	0	49	50		10015	31	30	111	13	13			048		081		041	4	1	64				4	264		8
06	5	2	16	1221	10	0	50	02		10015	71	63	24	10	10			048		090		030	4	1	61				4	296		8
06	5	2	16	1319	11	3	50	10		10015	79	78	83	18	18			054		094		063	4	1	60				4	275		8
06	5	2	16	1415	12	3	47	05		10415	85												4		59				4			8
06	5	2	17	1455	13	3	47	05		10117	55	56	42	9	9			052		088		029	4	1	56				4	265		
06	5	2	17	1505	14	3	50	10		10117	97	90	55	11	11			029		059		019	4	1	54				4	319		0
06	5	2	17	1705	15	0	52	01		10117	90												4		55				4			8
06	5	2	21	1320	19	0	53	09		11420	40												5		65				4			8
06	5	2	21	1518	20	3	49	01		11420	95												5		71				4			8
06	5	2	21	1700	21	3	49	01		11420	60												5		62				4			8
06	5	2	21	1845	22	3	46	05		11420	175												4		82				4			8
06	5	2	21	1920	23	3	42	13		11420	80												4		64				4			8
06	5	2	22	1650	24	3	46	05		11522	163												5		74				4			8
06	5	2	22	1745	25	3	49	01		11522	65												5		62				4			8
06	5	2	27	2215	26	0	42	71		10027	150												4		75				4			8
06	5	2	28	0100	16	0	46	60		11427	130												5		67				4			8
06	5	2	28	0130	17	0	44	66		11427	130												7		70				4			8
06	5	2	28	0830	28	0	52	01		10027	70														60				4			0
06	5	5	7	1845	1	2	36	41		04105	190												5		60				3			8
07					1						159	159	159	13	13			010		017		009		1					3	256		
07					1						156	156	156	12	12			013		020		010		1					3	244		
07					1						166	168	169	22	52			014		023		016		2					3	259		
07					1						157	159	157	40	58			025		042		063							3	268		
07					2						159	157	156	17	25			011		017		009		2					3	251		
07					2						142	156	176	19	19			028		040		033		1					3	226		
07					2						168	168	169	38	105			008		014		018		3					3	287		
07					2						162	159	159	13	13			017		029		015		1					3	265		
07					3						174	176	176	56	102			005		010		020		3					3	279		
07					3						131	133	134	18	31			018		030		016							3	264		
07					4						131	130	127	9	9			024		042		014		1					3	276		
07	5	1	7	0545	1	0	34	71		00215	190												3		65				3			8
07	5	1	30	0220	2	0	29	70		21530	190												4		65				3			7
07	5	1	30	0325	3	0	27	69		21530	190												4		63				3			7
07	5	1	30	0350	4	0	25	69		21530	153	153	153	17	17			008		013		009	4	1	63				3	252		7
07	5	1	31	0300	5	0	27	69		21531	190												4		64				3			7
07	5	1	31	0330	6	0	24	68		21531	190												4		63				3			7
07	5	1	31	0500	7	0	19	66	1	21531	105														08				3			0
07	5	1	31	1400	8	0	24	68		21631	180												4		56				3			7
07	5	2	4	0556	9	0	41	74	2	20403	120																		3			0
07	5	2	8	2300	10	5	31	52		20107	160												3						3			7
08																																	
08					1						126	85	73	41	113			021		030		057		5					3	211		
08					1						118	114	130	7	7			010		014		005		1					7	222		
08					1						106	93	81	31	59			059		085		100		2					7	235		
08					1						81	81	81	11	55			014		019		007		3					7	220		
08					1						78	66	33	13	17			049		080		040		2					7	256		
08					1						112	111	103	35			10	018	048	022	060	038							7	207		
08					1						61	65	65	7			2	074	083	100	120	033							7	224		
08					1						131	131	131	28			7	027	054	040	080	047							7	241		
08					1						63	63	63	7			2	056	096	070	120	023							7	205		
08					1						51	51	36	16			5	021	049	025	055	021							7	186		
08				1330	1	1	38	23			55	63	60	34		5	11	069	101	082	120	152			53				7	187		
08					1						184	185	211	26	26			012		024		021		1					7	314		
08					1						115	116	147	7	7			009		012		004		1					7	222		
08					2						163	163	160	17	17			011		020		014		1					3	258		
08					2						134	130	130	24	48			006		009		007		3					7	238		
08					2						79	100	102	126	204			023		030		179		7					7	204		
08					2						156	159	162	72	81			042		065		191		2					7	269		
08					2						64	60	26	29	40			020		026		035		2					7	216		
08					2						61	61	61	173			50	038	095	050	120	413							7	207		
08					2						64	64	64	109			30	046	088	063	120	317							7	218		
08					2						52	52	52	26			7	007	009	009	013	011							7	219		
08					2						62	69	120	7			2	033	052	040	063	014							7	198		
08					2						73	73	72	71			21	045	096	059	120	209							7	202		
08					2						127	128	126	17			4	043	080	064	120	043							7	249		

[a] Coded item.

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TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing							Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr			0.01													
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$ $W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
08			1830		2	1 37 25					63	63	63	23				022 038	027	045	032								7	189			
08					2						138	148	179	19	28			015	026		018			2					7	282			
08					2						137	135	134	24	49			016	024		024			3					7	243			
08					3						162	165	176	7	7			022	028		009			1					7	205			
08					3						130	130	66	5	5			019	039		007			1					7	325			
08					3						84	84	84	11	11			015	023		011			1					7	228			
08					3						208	208	208	10	10			057	105		036			1					3	291			
08					3						64	64	64	107			29	032 089	045	120	220								7	221			
08					3						37	40	84	34			10	016 085	022	120	037								7	204			
08					3						72	72	72	13			4	022 031	026	037	018								7	190			
08					3						41	95	92	7			2	034 041	044	061	015								7	223			
08					3						135	135	140	11			3	026 037	036	051	018								7	211			
08					3						51	51	110	3	3			048	061		010			1					7	202			
08					3						168	173	185	7	7			021	027		009			1					7	207			
08			0220		3	1 39 12				90300						5						2			58				7				0
08					4						134	134	134	12	74			038	056		028			3					7	234			
08					4						123	123	123	8	8			016	024		008			1					7	232			
08					4						105	105	105	15	26			029	041		027			2					7	224			
08					4						194	194	194	16	21			003	007		003			2					3	311			
08					4						68	53	30	38			12	020 036	024	053	050								7	188			
08					4						64	61	64	69			19	052 092	072	120	228								7	218			
08					4						61	61	45	10			3	005 009	006	011	003								7	193			
08					4						48	42	24	8			2	019 019	032	032	010								7	241			
08					4						168	168	55	3			1	047 037	057	057	010								7	190			
08					4						73	73	73	44			13	020 043	026	055	056								7	204			
08					4						91	87	87	55			16	046 096	062	120	163								7	208			
08					4						61	62	55	222			61	022 084	029	120	300								7	218			
08					4						66	66	66	88			24	013 034	018	046	072								7	219			
08					4						137	137	134	16	74			038	057		039			3					7	235			
08					4						130	177	190	30	47			010	016		017			3					7	254			
08			0320		4	1 40 18				90300						405						4			60				7				0
08					5						123	96	71	63	107			014	021		053			4					7	237			
08					5						103	103	103	36	50			032	043		070			2					7	216			
08					5						71	50	44	7	14			044	060		020			2					3	216			
08					5						81	42	25	44			13	033 066	046	090	098								7	201			
08					5						85	28	8	54			15	045 084	067	120	167								7	215			
08					5						42	42	42	56			15	017 057	024	080	060								7	224			
08					5						134	134	134	10			3	092 092	120	120	060								7	207			
08					5						73	73	72	59			17	027 056	036	075	102								7	207			
08					5						182	87	46	21	62			012	023		016			3					7	311			
08					6						106	106	70	3	3			008	010		002			1					7	207			
08					6						61	62	62	9	23			006	010		004			2					3	272			
08					6						64	64	64	16			5	062 100	076	120	063								7	198			
08					6						130	128	128	61			15	028 055	043	085	107								7	245			
08					6						68	59	59	80			22	046 087	064	120	235								7	219			
08					6						107	107	112	14	14			006	017		006			1					7	286			
08					7						119	102	92	20	20			022	033		028			1					7	240			
08					7						119	126	128	3	9			009	010		002			1					7	180			
08					7						70	22	4	44	61			054	066		142			2					7	204			
08					7						122	105	100	20	20			021	033		028			1					7	242			
08					7						110	110	110	86	139			016	029		088			5					7	288			
08					8						60	53	53	14	47			025	045		023			2					7	283			
08					8						115	128	130	6	12			034	040		014			2					7	187			
08					8						130	137	137	46			12	044 089	063	120	128								7	231			
08					8						64	64	64	6			2	089 096	111	120	037								7	198			
08					8						22	64	83	23	26			030	033		044								7	172			
08					8						138	140	179	76	90			027	049		132			2					7	284			
08					9						86	86	86	23	23			014	021		020			1					7	226			
08					9						196	196	192	5	5			063	120		020			1					7	302			
08					9						128	131	131	25	61			045	061		071			4					7	214			
08					9						64	64	64	6			2	091 092	120	120	040								7	205			
08					9	1					42	37	33	7			2	011 021	015	029	005								7	210			
08					9						110	140	208	21	21			014	022		019			1					7	252			
08					10						171	171	145	10	10			016	031		011			1					7	312			
08					10						64	64	61	3	3			016	020		003			1					7	282			
08					10						123	123	123	12			3	061 082	094	120	047								7	240			
08					10						64	64	64	22			6	065 091	090	120	090								7	221			
08					10						111	111	111	19	34			023	033		027			2					7	228			
08					10						38	13	10	19	19			058	069		070			1					7	193			
08					11						86	86	54	12	12			017	025		013			1					7	234			
08					11						131	123	93	10	10			015	029		010			1					7	311			
08					11						61	61	27	7	7			008	010		003			1					7	206			
08					11						123	123	123	38			9	016 035	025	053	038								7	250			
08					11						64	64	64	20			6	009 030	012	040	012								7	202			
08					11						13	28	28	10	10			060	076		038			1					7	197			

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing						Meteorological Conditions					Aircraft				
											100-ft					0.01-g/cu m	00.1-in/hr		0.01												
	t_y	t_m	t_d	$t_{g_1}t_{g_2}t_{g_3}t_{g_4}$	N	O (a)	$L_{a_1}L_{a_2}$	$L_{o_1}L_{o_2}$	L (a)	FFFFF	$Z_1Z_2Z_3$	$Z_1Z_2Z_3$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_cA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
08					12						83	86	86	52	181			013		018		039			8					7	209			
08					12						70	53	40	16	16			019		037		019			1					7	319			
08					12						64	64	64	6			2	076	091	100	120	033								7	208			
08					12						23	14	14	18	18			045		051		052			1					7	178			
08					13						86	86	86	25	49			020		027		031			2					7	211			
08					13						64	64	64	9			3	044	050	051	057	026								7	186			
08					13						14	26	45	10	10			049		064		032			1					7	207			
08					14						83	83	80	4	4			021		028		005			1					7	212			
08					14						64	64	64	6			2	081	082	100	100	031								7	195			
08					15						69	60	26	12	12			013		021		010			1					7	249			
08					15						61	61	64	20			6	013	028	016	036	017								7	197			
08					15						83	83	81	41	74			011		016		026			3					7	221			
08					16						64	65	61	4			1	063	063	085	085	014								7	209			
08					16						101	101	101	19	34			029		041		035			2					7	224			
08					17						173	173	173	21	21			018		036		024			1					7	313			
08					17						93	93	93	4			1	008	008	010	010	002								7	208			
08					17						120	120	119	21	21			051		067		067			1					7	206			
08					18						93	92	92	10			3	035	067	045	085	022								7	200			
08					19						93	90	90	43			14	042	069	052	085	121								7	188			
08					20						60	60	30	7			2	012	013	016	018	005								7	225			
08			2025		20	1	40	05		90200					205								2		55				7			5
08					21						56	56	61	3			1	046	046	047	047	008			53					7	163			
08					22						60	61	62	14			4	037	070	047	090	031								7	203			
08					23						62	61	61	26			8	029	067	037	085	051								7	198			
08					24						76	76	81	4			1	015	015	019	019	003								7	205			
08					25						90	89	89	22			6	010	047	015	070	015								7	220			
08					49						135	135	101	18			5	025	036	033	049	028								7	215			
08					54						49	45	26	22			6	012	018	016	024	018								7	220			
08					56						185	185	185	4			1	037	037	057	057	010								7	265			
08					62						60	55	56	48			13	022	067	030	097	067								7	222			
08					63						74	116	115	45			12	023	049	030	075	061								7	225			
08	2	3	12	0225	13	1	39	22		45800	80				200								3		53				7	190	2		
08	3	3	3	2312	1	1	43	10		90100					3								2		70				7				0
08	3	3	15	2120	2	0	42	83		26215	66	86	86	43	100	12		036	077	049	105	099	4						7	217			1
08	3	3	15	2150	3	0	42	84		26215					1					001			2		55				7				1
08	3	3	15	2225	1	0	41	87		40115					100								4		51				7				1
08	3	3	15	2240	4	0	41	87		26215					5					001			5		55				7				1
08	3	3	17	1105	2	1	41	22		45916					100								2		61				7				4
08	3	3	17	1123	3	1	43	22		45916					105								4		55				7				7
08	3	3	17	1201	4	1	45	22		45916					4								2						7				7
08	3	3	17	1301	5	1	45	22		45916																			7				
08	3	3	18	2215	6	0	41	79		41518					600								2						7				4
08	3	3	19	1400	7	0	45	19		41518					900								2						7				4
08	3	3	19	1419	2	0	40	86		90300					2								2		56				7				0
08	3	3	19	2325	8	1	37	21		45800					100								2		54				7				0
08	3	3	20	2355	9	1	37	21		45900					100								2						7				7
08	3	3	22	1658	45	1	41	96		00402					8								2						7				1
08	3	3	23	0930	46	0	42	88		00415					4								2						7				1
08	3	3	23	0958	47	0	42	90		00415					6								2						7				1
08	3	3	24	1639	12	1	40	95		00900	119	122	122	11	6	3		039	056	053	075	027	4		52				7	228			7
08	3	3	24	2230	13	0	41	80		00900					2								2		07				7				7
08	3	3	25	0430	5	0	41	78		90100					8								2		57				7				0
08	3	3	27	0043	16	0	42	83		00904					305								2		52				7				7
08	3	3	27	0043	17	0	42	82		00904					305								4	3	52				7				7
08	3	3	27	0230	6	0	42	79		90700					400								2		55				7				0
08	3	3	27	0318	18	0	42	82		00904					8								2						7				7
08	3	3	27	0418	19	0	40	77		00904					8								2		53				7				7
08	3	3	27	0440	20	0	40	76		00904					100								3		51				7				7
08	3	3	28	0315	21	0	41	77		90100					405								2		51				7				7
08	3	3	28	0400	23	0	41	79		90100					105								5		51				7				7
08	3	3	28	0845	7	0	41	78		90427					400								5		53				7				5
08	3	3	28	0917	24	0	42	87		90100					105								2		51				7				7
08	3	3	29	1348	54	0	42	81		00400					105								2	2	56				7				1
08	3	3	29	1555	56	0	40	74		00401					200								4		53				7				5
08	3	3	29	1720	57	0	43	79		00401					305								4		56				7				5
08	3	3	29	1820	58	0	43	80		00401					1								2		56				7				7
08	3	3	30	1125	59	1	42	07		00401					600								5		54				7				5
08	3	3	31	0735	29	0	42	80		90300													4		02				7				7
08	3	3	31	0835	27	1	36	00		90000					805								4		51				7				7
08	3	4	1	1410	30	1	42	91		90300					100								2		01				7				7
08	3	4	1	2020	31	1	42	09		90300					5								2		00				7				7
08	3	4	1	2040	32	1	38	05		90300					5								2		53				7				7
08	3	4	1	2107	33	1	42	11		90300					2								2		60				7				7
08	3	4	2	0020	8	0	41	78		90210					5								2		52				7				5

[a] Coded item.

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CG-7 back

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft				
										100-ft				0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_O L_O$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_c D_c D_c$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_a A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
08	3	4	2	0038	9	0	42	74		90210						4							2			52				7				5
08	3	4	2	0140	10	0	43	83		90210						8							4			51				7				5
08	3	4	2	0453	34	1	39	05		90200						209							4			00				7				7
08	3	4	2	0847	35	1	42	00		90200						306							4			02				7				7
08	3	4	2	0847	68	1	39	05		41510						5							2			51				7				7
08	3	4	2	0920	69	1	42	04		41510						1							2			60				7				7
08	3	4	2	0940	70	1	42	06		41510						1							2			61				7				7
08	3	4	2	0954	36	1	42	01		90210						205							4			01				7				7
08	3	4	4	0235	11	0	42	80		90403						300							2			54				7				5
08	3	4	4	0541	38	0	41	78		00901	80					100					001		2	2						7				0
08	3	4	4	0831	40	0	41	87		00901	66	66	26	4		3	1	023	023	040	040	007	4	1		55				7	227			9
08	3	4	4	1050	41	0	41	87		00901	58	64	87	7		5	2	034	038	039	043	013	4	1		00				7	211			1
08	3	4	5	0900	72	0	41	79		40000						300							4			56				7				7
08	3	4	5	0915	73	0	41	75		40000						309							3			55				7				7
08	3	4	6	0022	74	1	42	06		40100						600							2			52				7				7
08	3	4	6	0145	75	1	42	12		40100						102							2			55				7				7
08	3	4	6	0206	76	1	42	12		40100						5										55				7				7
08	3	4	7	1110	51	1	42	00		00910	97	93	77	50		700	13	022	038	031	055	067	4							7	233			1
08	3	4	7	1220	52	1	41	98		00900	90		70							001						01				7				
08	3	4	7	1400	12	1	37	05		90107						415							4			62				7				5
08	3	4	9		14					90308																				7				
08	3	4	9	1542	13	1	41	02		90308						418							2			52				7				5
08	3	4	9	2050	15	1	41	11		90308						1							4			70				7				5
08	3	4	9	2145	16	1	39	12		90308						3							4			66				7				5
08	3	4	9	2200	17	1	41	16		90308						5							4			66				7				5
08	3	4	9	2350	18	1	38	21		90308						100							4							7				5
08	3	4	10	0850	55	1	42	91		00901	48	53	85	7		5	2	041	041	047	047	016	4	1						7	202			1
08	3	4	10	1245	56	1	39	05		00901	93	95	95	32		100	8	010	025	016	038	021	4	1		56				7	237			1
08	3	4	11	1330	59	1	39	05		00900	60		90			3							4	1		55				7				1
08	3	4	11	1530	60	1	42	00		00900	90												4	2		60				7				1
08	3	4	11	1810	19	1	40	05		90200						108							4			60				7				5
08	3	4	11	2310	61	0	41	86		00900	50																			7				1
08	3	4	12	0220	62	0	42	80		00900	70					100							2	1		01				7				1
08	3	4	12	0730	21	0	42	82		90210						400							5			54				7				5
08	3	4	14	0855	52	1	42	91		90100						5					001		3			54				7				0
08	3	4	14	0945	53	1	42	93		90100	84	84	83	8		7	2	009	010	013	014	004	3			52				7	232			0
08	3	4	14	1041	54	1	41	97		90100						100					001		4			51				7				0
08	3	4	14	1118	55	1	41	00		90100						3					001		4			01				7				0
08	3	4	15		60						66	60	27	10			3	039	074	054	097	027								7	191			
08	3	4	15	1634	57	1	42	94		90000	73	73	73	8		3	2	017	020	025	031	008	4			55				7	239			1
08	3	4	15	1707	58	1	42	92		90000	78	78	77	39		105	10	024	073	036	110	060	4			54				7	236			1
08	3	4	15	1734	59	1	42	91		90000	78	78	80	20		100	5	021	030	032	047	028	4			54				7	236			1
08	3	4	15	2110	61	0	42	88		90000	60	60	59	23		5	6	030	075	042	105	044	4			52				7	229			1
08	3	4	16	0605	64	0	41	77		90300	65	65	66	49		300	13	017	052	024	075	053	4			52				7	226			7
08	3	4	16	0650	65	0	41	79		90300	65	49	49	93		300	25	034	075	048	105	200	4			52				7	224			7
08	3	4	16	0925	66					90300						100							4			54				7				7
08	3	4	16	0940	67	0	42	83		90300						205							4			60				7				7
08	3	4	16	1050	68	0	42	85		90300						105							4			55				7				7
08	3	4	17	0109	79	0	41	79		90200						300							2			58				7				7
08	3	4	17	0135	72	1	41	16		90200						5							2			63				7				7
08	3	4	17	0150	80					90200						300							2			58				7				7
08	3	4	17	0225	73	1	42	12		90200						100							4			62				7				7
08	3	4	17	0640	74	1	40	12		90200						105							4							7				7
08	3	4	18	0741	81	0	42	78		90700																				7				
08	3	5	1	0320	10	0	42	71		00907	40					300							2							7				7
08	3	5	1	0512	11	0	42	72		00907	40		60			6							2			51				7				7
08	3	5	2	2038	12	0	42	90		02900	90					2							2			58				7				4
08	3	5	8	1410	13	1	41	16		00903	120					5							2			62				7				7
08	3	5	8	1433	14	1	41	17		00903	120					2							2			62				7				7
08	3	5	8	1455	15	1	40	18		00903	120					5							2			62				7				7
08	3	5	8	1528	16	1	40	20		00903	120					2							2			62				7				7
08	4	1	7	1030	1	0	41	80		00627	120												2			67				3				0
08	4	1	20	1605	2	0	41	87		00633	10		35										4	2		52				3				8
08	4	1	21	0906	3	1	38	21		00632	130												6			60		2		3			9	8
08	4	1	21	1230	4	0	41	87		00632	40												2			63		1		3			7	8
08	4	1	22	1440	5	1	42	12		00627	160												5			59	9		2	3				8
08	4	1	22	2150	6	1	38	21		00630	70												2							3				8
08	4	1	22	2325	7	1	41	12		00630	190												2			64				3				8
08	4	1	27	0350	8	0	41	87		00626	20		70										2			53				3				8
08	4	1	27	0645	9	0	41	75		00626	120		100										2			58				3				8
08	4	1	27	0850	10	0	42	77		00635	120												2	2		52		1		3				8
08	4	1	27	1030	11	0	42	81		00635	50		20										5			53				3				8
08	4	2	4	2120	12	0	41	87		00607	35		65										2			54				3				8
08	4	2	17	1100	6	1	41	01		40818	38	86	87	15	34			058		066		055	4	1	2	53				7	183			1
08	4	2	17	1859	3	1	38	21		40916	112	133	133	42	70			014		018		039	4		3	63				7	209			1

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing					Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr		0.01												
	t_y	t_m	t_d	$t_g t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
08	4	2	24	0320	3					00743	200											3			70				3				5
08	4	2	24	1000	1	1	46	21		00742	85											3			55				3				0
08	4	2	26	1845	4	1	40	02		00628	190											4			72				3				5
08	4	2	28	0145	7					00611	65											2			62				3				5
08	4	2	28	0220	8					00611	55											3			60				3				7
08	4	2	28	1015	5					00620	190											4			72				3				5
08	4	2	28	2349	6	0	40	78		00611	120											2			55				3				5
08	4	5	3	0637	1	0	42	88		00409	40											4			56								9
08	4	5	3	0650	2	1	42	91		00409	40											4			56								9
08	4	5	3	0703	3	1	42	92		00409	40											5			59	6		2					9
08	4	5	3	0742	4	1	42	93		00409	40											5			60								9
08	4	5	3	0818	5	1	41	95		00409	40														60								
08	4	6	14	1412	12	1	41	12		00409	120											4			54				7				1
08	4	6	14	1630	13	1	41	15		00409	125											4			53				7				1
08	4	6	16	0243	1	1	41	17		04100	130														53				7				
08	5	3	27	0124	4	1	43	16		00506	173	173	173	21	21			004	008	005	2		1		66				7	315			8
08	5	3	27	1620	1	1	46	20		00509	160											4			63	7	0		7		5		8
08	5	3	29	0348	5	1	45	23		00507	72	65	18	9	9			044	078	026	2		1		57				7	282			8
08	5	3	29	0438	6	1	47	21		00507	50										2				54				7				8
08	5	3	29	0455	7	1	47	22		00507	53	53	53	13	13			022	036	018	2		1		55				7	267			8
08	5	4	12	0314	1	1	40	03		00503	145	111	80	23	26			013	018	019			2		64				3	226			5
08	5	4	12	1606	13	0	42	79		00519	138	138	138	10	10			037	071	024	4		1		57				7	301			8
08	5	4	12	2240	14	1	40	03	2	00519	162	106	71	32	85			010	019	014	4		2		64				7	318			8
08	5	4	13	0007	15	1	40	05		00519	130										4				65				7				8
08	5	4	13	0210	2	1	41	16		00501	200										3				75				3				5
08	5	4	13	1201	16	0	42	90		00504	154	138	79	30	60			012	024	024	4		2		60				7	301			8
08	5	4	13	1355	18	0	42	86		00504	173	173	173	16	16			012	024	013	4		1		59				7	317			8
08	5	4	17	1030	19	1	37	14		00532	144	144	144	5	5			061	110	018	4		1		65				7	285			8
08	5	4	17	1030	20	1	42	11		00532	190	190	190	27	81			008	017	015	4		3		65				7	322			8
08	5	4	17	1030	21	1	42	11		00532	190	190	190	11	11			014	027	009	4		1		65				7	318			8
08	5	4	17	1030	22	1	42	11		00532	190	190	190	5	5			014	028	005	4		1		65				7	326			8
08	5	4	17	1030	23	1	42	11		00532	190										4				65				7				8
08	5	4	18	1440	24	1	38	22		00503	190										4				60				7				8
08	5	4	19	0235	25	0	41	77		00514	150										4				54				7				8
08	5	4	20	1800	26	0	42	85		00519	140										4	3			56	8			7				8
08	5	4	20	1900	7	0	42	80		00501	120										4								3				5
08	5	4	20	1900	8	0	42	83		00501	120										4								3				5
08	5	4	21	2209	27	0	39	77	5	00516	170										4				57				7				0
08	5	4	22		28																3	1				7			7				
08	5	4	22	0439	1	1	42	06		00500	190														73				3				
08	5	4	23		29	1	46	23													2	2			59				7				
08	5	4	24		30																				04	4			7				
08	5	4	26	0345	2	0	41	75		00516	110										4				51				3				5
08	5	4	28		4						111	106	105	23	23			021	036	030			1						3	280			
08	5	4	28	0222	3	1	45	18	2	00507	120										2				57				3				5
08	5	4	29	0352	5	1	47	23		00507	79	69	35	10	10			020	038	013			1		57				3	294			4
08	5	4	29	0751	6	1	47	23		00508	70										4				54				3				5
08	5	5	1		7						72	73	14	23	51			038	066	055			2						3	276			
08	5	5	2		8						156	156	157	25	79			016	028	023			3						3	297			
08	5	5	4		9						174	174	140	6	6			025	056	009			1						3	350			
08	5	5	6		10						179	182	184	28	37			024	042	042			2						3	278			
08	5	5	7		11						187	187	187	14	14			020	038	019			1		57				3	287			
08	5	5	9	1954	12	1	42	91		00501	174	174	174	15	36			004	008	004	4		2		57				3	309			5
08	5	5	12	0229	13	0	40	81		00514	170										4				59				3				5
08	5	5	15	2121	14	1	40	03		00518	230										4				60				3				5
08	5	5	18		2						176	166	142	59	59			017	032	065			1						3	295			
08	5	5	18		3						134	123	62	17	17			026	043	028			1						3	260			
08	5	5	18	0420	1	1	40	05		00503	182	110	61	20	55			008	014	010	3		2		55				3	302			8
08	5	5	19	0456	4	1	40	05	1	00502	90		160								3				55				3				8
08	5	5	20		5						154	159	159	18	18			026	045	030			1						3	271			
08	5	5	23	0220	1	1	41	14		00500	190										3				69		0		3		0	0	8
08	5	5	24	0020	6				2	00507	176	153	128	15	29			032	059	030	4		2						3	293			8
08	5	5	24	0545	2	1	35	16		00504	190										2				69		0		3		0	0	8
08	5	5	24	0605	3	1	36	15		00504	190										2				69		0		3		0	0	8
08	5	5	24	0855	4	1	41	98		00504	190										4				71		0		3		0	0	8
08	5	5	25	0900	7	1	42	96		00520	190										4				64		0		3		0	0	8
08	5	5	25	1845	5	1	41	98		00525	180										3				58		0		3		0	0	8
08	5	5	25	2050	6	1	42	09		00525	220										4				70		0		3		0	0	8
08	5	5	26		7						184	185	185	10	30			008	015	005			2						3	296			
08	5	5	27		8						61	61	61	8	8			010	014	005			1						3	231			
08	5	5	27	2155	8	1	41	02		00518	190										4				63		0		3		0	0	8
08	5	5	28		9						134	150	150	40	103			039	066	098			4						3	268			
08	5	5	30	2220	10	0	38	79		00514	131		60								3								3				8
08	5	5	31	1445	9	0	41	71		00501	160										4				65		0		3		0	0	8

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft				
										100-ft					0.01-g/cu m	00.1-in/hr			0.01										
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
08	5	5	31	2200	10	1	41	05		00501	200												4			62	0		3		0	0	8
08	5	6	1	0545	11	1	41	91		00511	180												2			55	0		3		0	0	8
08	5	6	2	0139	12	1	41	98		00511	180												4	1		56	0		3		0	0	8
08	5	6	2	2340	13	1	41	98		00500	210												4			62	0		3		0	0	8
08	5	6	2	2358	14	1	41	96		00500	210												4			61	0		3		0	0	8
08	5	6	3	0010	15	1	41	96		00500	210												4			61	0		3		0	0	8
08	5	6	3	0158	16	1	41	91		00500	200												4			57	0		3		0	0	8
08	5	6	4	0058	17	1	40	05		00504	190												2			67	0		3		0	0	8
08	5	6	5	0807	18	1	44	97		00520	190												4			65	0		3		0	0	8
08	5	6	7	1450	19	0	42	79		00519	140												2			54	0		3		0	0	8
09					1						33	17	12	27	27			046		061		082		1					5	205			
09					1						154	154	154	29	29			010		019		018		1					5	292			
09					1						97	115	142	16			4	013	020	018	027	013							5	244			
09					1						47	33	8	6			2	005	010	008	015	003							5	178			
09					1						187	187	189	14			3	006	010	011	018	006							5	280			
09					1						131	133	138	60			13	007	018	013	032	028							5	275			
09					1						153	153	153	15			3	017	034	030	062	015							5	292			
09					2						115	115	115	14	14			036		066		033		1					5	286			
09					2						90	122	122	35	81			036		055		083		5					5	232			
09					2						18	30	76	9	9			066		074		037		1					5	179			
09					2						184	184	157	10	10			019		035		012		1					5	291			
09					2						51	49	41	13			4	010	014	012	017	008							5	192			
09					2						20	20	16	2			1	080	070	067	067	011							5	131			
09					2						163	119	109	38			8	021	047	037	080	049							5	287			
09					2						118	118	102	12			3	043	067	068	105	034							5	234			
09					2						120	126	144	8			2	028	037	041	055	014							5	232			
09					3						101	102	102	13	44			007		012		006							5	261			
09					3						126	122	122	50	109			024		039		071		5					5	252			
09					3						83	50	18	28	44			035		054		063		3					5	241			
09					3						70	70	34	4	4			066		100		017		1					5	238			
09					3						97	63	37	24	24			034		051		052		1					5	236			
09					3						95	106	156	20			5	010	030	015	044	012							5	242			
09					3						97	97	97	4			1	061	061	090	090	015							5	235			
09					3						157	157	157	5			1	004	004	008	008	001							5	284			
09					3						102	64	22	49			14	027	084	038	120	070							5	210			
09					4						144	144	147	13	13			008		014		007		1					5	266			
09					4						114	114	38	4	4			035		058		010		1					5	265			
09					4						56	62	112	7	7			086		108		036		1					5	199			
09					4						76	126	168	38	38			025		037		062		1					5	230			
09					4						140	118	118	34			7	010	025	019	044	021							5	288			
09					4						181	157	126	40			8	013	038	025	072	033							5	304			
09					4						169	169	173	22			5	027	073	044	012	036							5	261			
09					4						70	107	162	13			4	028	040	033	047	023							5	195			
09					4						192	192	192	8			2	009	018	016	031	005							5	254			
09					5						91	87	51	8	8			020		030		010		1					5	245			
09					5						173	173	173	10			2	011	015	020	027	007							5	288			
09					5						115	111	63	7	7			022		029		010		1					5	208			
09					5						145	145	128	13	13			075		120		060		1					5	253			
09					5						154	154	154	21			5	022	075	035	120	030							5	257			
09					5						79	87	131	7			2	033	040	042	051	015							5	219			
09					5						81	87	90	8			2	007	008	009	010	003							5	247			
09					6						107	101	56	51	51			047		076		153		1					5	254			
09					6						123	135	184	8	8			011		018		006		1					5	248			
09					6						102	46	13	33			8	021	063	039	120	052							5	247			
09					6						128	134	134	27			6	012	036	021	062	020							5	267			
09					6						154	154	154	10			2	007	007	012	012	002							5	286			
09					6						102	102	102	35			9	017	050	025	075	037							5	232			
09					7						159	154	154	21	21			011		022		015		1					5	312			
09					7						39	107	156	49			14	020	041	025	051	061							5	209			
09					7						12	12	5	2			1	041	041	040	040	007							5	139			
09					7						169	179	192	22			5	005	012	008	019	006							5	271			
09					7						120	114	112	37			8	017	050	028	083	038							5	276			
09					8						54	54	9	4	4			036		058		010		1					5	254			
09					8						114	71	49	66			15	030	069	052	120	132							5	264			
09					8						202	202	202	5			1	012	012	021	021	004							5	285			
09					8						202	202	202	26			6	006	013	010	022	009							5	256			
09					9						228	228	228	5			1	021	021	038	038	006							5	284			
09					9						41	40	15	20			7	031	038	035	050	042							5	171			
09					9						76	87	107	16	16			054		064		053		1					5	187			
09					9						68	68	62	28	28			046		081		082		1					5	278			
09					10						166	137	87	18			4	023	036	039	061	027							5	263			
09					10						86	92	142	7			2	025	026	032	033	011							5	208			
09					10						72	83	128	10			3	055	074	066	089	034							5	193			
09					11						181	181	181	5	5			018		033		006		1					5	285			
09					11						192	192	192	28			6	023	042	042	075	043							5	284			

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing					Meteorological Conditions					Aircraft				
										100-ft				0.01-g/cu m	00.1-in/hr		0.01												
	t_y	t_m	t_d	$t_1t_1t_gt_g$	N	O (a)	L_aL_a	L_oL_o	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_tA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
09					11						137	137	138	32			7	005	005	008	008	009							5	270			
09					11						118	118	118	27			6	018	028	031	049	031							5	271			
09					12						134	49	40	21	93			067		120		080							5	309			
09					12						12	12	12	3			1	121	121	120	120	020							5	157			
09					12						72	38	25	9			3	043	103	050	120	025							5	189			
09					12						110	150	150	51			12	016	048	026	083	053							5	255			
09					12						50	32	11	20			6	008	020	011	026	010							5	199			
09					13						59	59	87	3	3			045		058		010		1					5	204			
09					13						52	64	114	9	9			044		052		026		1					5	185			
09					13						142	145	163	7	7			015		019		006		1					5	210			
09					14						160	159	120	9	18			011		018		006		2					5	264			
09					14						59	59	107	3			1	033	033	041	041	007							5	204			
09					14						44	44	106	4			1	029	029	038	038	006							5	215			
09					15						100	97	26	10	10			025		045		015		1					5	287			
09					15						123	123	173	4	4			042		065		011		1					5	242			
09					15						194	194	194	9			2	006	012	011	021	004							5	272			
09					15						110	37	31	39			9	007	013	012	023	018							5	260			
09					16						126	86	36	107	179			044		070		281		4					5	256			
09					16						62	62	47	5	5			031		055		009		1					5	279			
09					17						130	126	126	57	57			021		036		078		1					5	264			
09					17						128	160	171	40	115			041		069		104		2					5	265			
09					18						131	157	176	32	83			041		072		073		3	61				5	275			
09					19						189	189	189	15	15			004		009		004		1	72				5	305			
09					20						92	91	91	9	9			025		043		014		1					5	270			
09				1545	3	3	46	06		90413													4						5				
09				1720	4	3	46	06		90400																			5				
09				1755	5	3	47	23		90400																			5				
09				1935	6	3	47	23		90400																			5				
09				2235	7	3	42	13		90400																			5				
09	2	11	5	1840	1	0	46	60	1	91605	150				205								2			05			5			0
09	2	11	5	1930	2	0	47	57		91605	171				5								2			62			5			0
09	2	11	5	1948	3	0	48	56		91605	171				407								4			60		7	5			0
09	2	11	5	1948	4	0	49	51		91605	171				407											62		7	5			0
09	2	11	13	2330	6					92513	125				400								4	1		60		7	5			9
09	2	11	14	1120	7	0	47	57		92513	180				5								4	1		65			5			1
09	2	12	6		2	3	35	10		98404	77	84	116	8			2	034	035	044	045	015							5	228			
09	2	12	6	1925	1					98404	124	124	116	17		200	4	028	045	048	077	033				59			5	254			
09	2	12	6	2100	3	3	35	10		98404	120	124	140	8			2	025	033	036	047	012				59			5	237			
09	2	12	15	1554	10	3	46	06		90214	53	34	28	10		5	4	046	134	043	120	028				59			5	155			
09	2	12	16	0226	11	3	38	24		90214	18	16	9	5			2	036	063	032	057	011							5	137			
09	3	1	3	0310	1	0	50	40		96600	150												5			60			5			1
09	3	1	3	0346	2	0	51	38		96600	150												5			59			5			9
09	3	1	3	0430	3	0	51	33		96600	150												4			59			5			1
09	3	1	4	2320	4	0	53	09	1	96300	70												4			52			5			1
09	3	1	4	2335	5	0	53	10		96300	120												4			57			5			1
09	3	1	4	2355	6	0	52	16		96300	120												9			57			5			1
09	3	1	5	0015	7	0	52	17		96300	120												4			56			5			1
09	3	1	5	0610	8	0	51	49		96300	120												9			54			5			1
09	3	1	9	0500	9	0	49	58		06928	140												4			68			5			0
09	3	1	9	1630	10	3	49	01		06928	75												4						5			1
09	3	1	9	1733	11	3	49	02		06928	36												4			02			5			1
09	3	1	9	1945	12	3	49	03		06928	70												4				7	2	5			1
09	3	1	12	0430	13	0	52	17		01923	160															68			5			1
09	3	1	12	1050	14	0	50	52		01923	160												4			56			5			1
09	3	1	12	1108	15	0	49	53		01923	180												4			59			5			1
09	3	1	12	1445	16	0	44	66		01923	105												4			56			5			1
09	3	1	12	1529	17	0	44	70		01923	100												4			58			5			1
09	3	1	13	2202	18	0	41	74	1	90400																10			5			
09	3	1	14	0315	19	0	51	44		90400	170												4			68			5			1
09	3	1	14	0605	20	0	54	23		90400	170												4			60			5			1
09	3	1	14	0615	1	0	53	20	3	90413																			5			
09	3	1	14	0632	2	0	53	20	3	90413																			5			
09	3	1	20	0810	8	0	53	20		90400	170												4			70			5			
09	3	1	24	1905	9	0	52	00															4						5			1
09	3	2	14	0205	17	0	53	09		91913	70												3						5			0
09	3	2	14	0650	18	0	51	28		91913	173	173	173	23	23			028		049		041	4		1	62			5	276			8
09	3	2	14	0911	19	0	51	39		91913	160												4			64			5			8
09	3	3	2	1900	2	0	52	00		96502	5					5										55			5			0
09	3	3	6		3	3	49	03		92805																			5			0
09	3	3	11	1815	1	3	49	03		90410	76	80	101	8		2	2	049	082	069	115	023				57			5	228			
09	3	3	15	1655	7	0	43	79		90513						2										08			5			
09	3	3	17	1513	10	3	42	12		93016						2							3			54			5			
09	3	3	18	1100	11	3	42	12		93718	80	80	127	4		8	1	035	035	050	050	008							5	248			
09	3	3	19	0410	13	0	50	51		93718	78	31	16	52		105	13	015	039	022	049	048	9			53			5	239			
09	3	3	20	0044	2	0	42	70		92619	100	105	130	7		2	2	022	027	030	037	010				58			5	220			0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance			Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft				
											100-ft						0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$t_o l_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
09	3	3	20	0840	6	0	52	31		92619	170					100							4		64				5			0
09	3	3	23	0120	9	0	50	25		92322	192	192	192	14		100	3	010	015	019	027	010	4		64				5	287		0
09	3	3	28	2075	12	0	51	03		90529	125					2							4		60				5			0
09	3	3	28	2091	13	0	52	03		90521	134	134	103	41				018	033	031	055	046	4		58				5	275		9
09	3	4	5		2					98805	135	118	83	13			3	040	071	068	120	034							5	265		
09	3	4	5		3					98805	102	124	166	16			4	019	037	027	055	018							5	243		
09	3	4	5		5					98805	118	62	37	50			13	027	060	044	100	097							5	229		
09	3	4	5		7					98805	65	83	127	17			5	021	051	026	063	023							5	206		
09	3	4	5		8					98805	187	187	187	14			3	005	010	009	018	005							5	289		
09	3	4	5		11					98805	144	144	144	5			1	010	010	018	018	003							5	278		
09	3	4	5		1	0	39	27		98805	103	134	163	15			4	015	031	021	043	014	3						5	220		0
09	3	4	10	1800	13	0	40	74		90600	106	124	166	45			10	013	031	021	052	036	4		60				5	268		1
09	3	4	18	1925	1	0	48	54		92418	120		40			300							4		60				5			0
09	3	4	18	2055	2	0	49	54		92418	5		120			300							4						5			0
09	3	4	27	0135	1	0	42	38		98800	170					100							5		65				5			8
09	3	4	27	1630	2	0	40	02		98800	110					2							4		55				5			0
09	3	4	29	1032	5	0	42	48		98500	184					6							4		61				5			0
09	3	4	29	1153	6	0	44	55		98500	180					3							4		66				5			0
09	3	5	3	0605	16	0	40	31		98100	180					105							4		66				5			0
09	3	5	31	2240	1	3	48	04		91800	101	102	103	27		100	6	022	032	037	055	036	4		55				5	266		0
09	3	5	31	2310	3	3	48	06		91800	95					100							4		55				5			0
09	3	6	1	0045	4	3	46	07	1	91800	140					100							4		65				5			0
09	3	6	2	0009	9	3	49	02		92902	75					2							2		55				5			0
09	3	6	2	2010	5	3	48	08		92900	160					100									70				5			0
09	3	6	2	2120	6	3	48	07	1	92900	10					1									05				5			0
09	3	6	2	2140	7	3	47	09		92900	85					105							4		57				5			0
09	3	6	2	2220	8	3	49	03		92900	85					100							4		57				5			0
09	3	6	3	0916	10	0	51	42		92902	180					100							4		61				5			0
09	3	6	3	1008	11	0	50	46		92902						5							4		59				5			0
09	3	6	3	1116	12	0	50	51	2	92902	100					100							4		54				5			0
09	3	6	3	1430	13	0	45	64		92902	80												2		54				5			0
09	3	6	6	0403	14	0	53	18		96405	190					8							4		63				5			0
09	3	6	7	0305	16	0	53	28		96306	80					1							2		64				5			0
09	3	6	7	0349	17	0	53	32		96306	80					200							4		66				5			0
09	3	6	7	0524	18	0	52	40		96306	80					100							4		67				5			0
09	3	6	7	0542		0	52	41		96306	80					2							4		67				5			0
09	3	6	13	1117	1	3	47	06		94400	95														51				5			1
09	3	6	17	0840	10	3	48	02		91600	179	179	179	22	53			018		030		020	2	2	01				5	267		1
09	3	6	17	2255	7	0	50	47		91600	114	114	114	5	5			017		029		005	2	1	56				5	277		9
09	3	6	17	2255	8					91600	170												2						5			1
09	3	6	19	0325	16	0	53	10	1	92719	100												2		52				5			0
09	3	6	19	1109	17	0	50	50		92719	140												2		51				5			0
09	3	12	20	0400	1	3	39	24		00906	155												4		62				5			8
09	3	12	20	0530	2	3	38	24		00906	155												4		60				5			8
09	3	12	20	0800	3	3	35	25		00906	155												4		64				5			8
09	3	12	24	0550	4	3	38	22		00907	145												4		58				5			8
09	3	12	24	0700	5	3	41	14		00907	185												4		67				5			8
09	4	2	4	1626	4	3	42	12		99104	95												2		59				5			0
09	4	2	4	1843	5	0	42	00		99104	140												4		70				5			0
09	4	2	5	0837	7	0	43	49		99104	189	190	190	10	53			011		020		007	5		66				5	287		0
09	4	2	5	1023	8	0	44	57		99105	182												4						5			1
09	4	2	8	1503	10	0	40	08		98807	134	134	134	46	55			014		024		040	3		57				5	273		1
09	4	2	8	1510	11	0	41	08		98807	130												3		57				5			1
09	4	2	8	1525	12	0	38	08		98807	130												3		57				5			1
09	4	3	25	2000	18	0	49	55		92825	80														65				5			0
09	4	3	26	0745	19	3	49	01		92800	30												4		03				5			1
09	4	3	26	1711	20	3	41	14		92800	175														60				5			0
09	4	3	28	0040	2	0	52	04		91927	125												4		58				5			1
09	4	3	28	0051	3	0	54	05		91900	125												4		58				5			1
09	4	4	24	1600	10				3	96323	160												3		65				5		7	0
09	4	4	24	2105	11	0	49	55	2	96323	63	63	12	4	4			007		012		002	4	1	58				5	269		0
09	4	4	26	1715	12				2	98825	115												4		53				5			0
09	4	4	26	2129	13					98825	157	157	156	10	10			030		055		018	4	1	59				5	302		0
09	4	4	26	2259	14	3	40	09		98825	159	159	159	5	19			062		120		020	4	2	58				5	287		0
09	4	6	12		3	0	41	87	2	92511																			5			
09	4	6	12	1448	2	0	40	74	1	92511																			5			0
09	4	6	13	1330	4	0	41	87	1	94013																			5			
09	4	6	13	1425	5	0	42	83	2	94013																			5			
09	4	6	13	1425	6	0	42	83	1	94013																			5			
13					1						185	137	133	25	72			013		022		022		3					21	253		
13					1						189	189	189	18	18			016		028		032		1	61				21	271		
13					2						92	62	48	31	42			025		036		049		2					21	229		
13					2						189	189	189	50	54			013		022		042			65				21	272		
13					3						101	100	137	15	15			010		014		009		1					21	225		

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

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CG-8

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing						Meteorological Conditions				Aircraft				
											100-ft				0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	θ (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_nW_nW_d$	$W_mW_mW_m$	$R_nR_nR_n$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_tA_t (a)	VVV (mph)	V_e (a)	A (a)	A_d (a)
13					3						189	189	189	23	23			006		011		009			1	77				21	281			
13					3						100	100	134	15			4	020	029	029	040	019								21	225			
13					4						127	101	101	24	60			024		035		036								21	238			
13					5						92	95	78	16	47			021		032		002			2					21	235			
13					6						185	185	185	4	4			012		021		004			1					21	268			
13					7						189	189	189	30	34			019		031		038								21	258			
13					8						185	189	189	22	40			015		026		022			2					21	264			
13					9						89	81	27	23	31			005		007		007								21	230			
13					11						127	97	86	13	13			039		064		032			1					21	261			
13					12						106	106	106	25	25			005		009		009			1					21	253			
13					14						189	189	189	14	14			012		020		010			1					21	270			
13	1	12	27	0608	1	1	39	25	5		185	137	133	25		6	6	016	030	025	046	025				65				21	253			
13	2	1	5	0705	2	1	38	22			91	62	48	31		100	8	027	072	038	110	051		2		53	4			21	229			
13	2	1	23	0210	5	1	47	35	9		92	92	78	12				021	041	031	061	015	4			54			8	21	237			
13	2	1	23	2249	4	1	51	39			127	100	100	24		7	6	023	044	035	065	035	4	1		01	6			21	237			
13	2	2	4	0119	6	1	50	42			185	185	185	4		104	1	013	013	022	022	004	4	1		82	4			21	260			
13	2	2	14	1503	7	1	38	45			189	189	189	30		9	7	021	045	034	075	041	4	1		68	4	1		21	259			
13	2	2	22	0049	8	1	51	41			187	185	187	18		6	4	015	021	026	037	018	4	1		70	3	1		21	264			
13	2	2	22	0624	9	1	39	22			89	79	27	23		100	6	005	016	007	024	007	4	1		53	4			21	229			
13	2	2	26	0943	11	1	38	23	5		109	97	83	13		5	3	040	048	065	077	033	4	1		59	4			21	253			
13	2	3	12	1223	12	1	50	39			103	100	100	24		100	6	007	011	010	016	011	4	1		53	5		7	21	241			
13	2	3	21	0300	14	1	43	38	3		185	187	185	14		5	3	011	013	019	022	010	4	1		62	9			21	270			
13	4	1	22	0515	3	1	38	25			102	100	74	21	66			014		022		015	4	1	2	54	4			21	248			0
13	4	1	22	2205	1	1	40	45	4		49	49	106	4	4			026		037		006	4	1	1	53	7			21	225			0
13	4	1	27	0430	7	1	40	22			159	144	140	9	37			014		024		008	4	1	2	51	3			21	280			0
14					6						84	83	84	19	34			045		066		055			2					21	227			
14					7						92	92	101	32	44			007		010		014			3					21	242			
14					8						97	107	106	45	53			032		049		091			2					21	246			
14					13						85	85	85	16	16			023		036		024			1					21	246			
14					14						105	105	105	43	70			012		019		036			2					21	232			
14					19						151	151	150	4	22			035		055		009								21	258			
14					20						106	105	105	46	46			031		045		092			1					21	231			
14	2	1	12	0930	1	2	41	46			100	105	105	11		205	5	005	025			006	4	1		74		1		21	225			
14	2	12	6	0845	1	2	40	45			97	92	97	8	8			052		078		026	4	3	1	64	8		2	21	239			8
14	2	12	6	0935	2	2	39	43			97												4	1		64	3			21				0
14	2	12	6	1015	3	2	38	42			98												4	1		64	3			21				0
14	2	12	7	0139	3	2	32	34			184												4	1		68	5			21				0
14	2	12	7	0303	4	2	30	32			145												4	1		64	5			21				0
14	2	12	9	0432	7	2	29	27			15												4	2		09	7			21				0
14	2	12	9	0435	8	2	29	27			15												4	2		09	7			21				0
14	2	12	9	0439	9	2	29	27			15												4	2		09	7			21				0
14	2	12	9	0607	10	2	30	25			15												4	2		02	7			21				0
14	2	12	9	0608	11	2	30	25			15												4	2		02	7			21				0
14	2	12	9	0624	12	2	31	24			15												4	2			7			21				0
14	2	12	9	0640	13	2	32	24			15												4	2			7			21				0
14	2	12	9	1345	14	2	36	30			15																			21				
14	2	12	9	2339	6	2	34	38			182												4	3		62				21				0
14	2	12	13		19						15													2						21				
14	2	12	16	0942	3	2	39	44	5		99												9	1		59	5			21		8		8
14	2	12	16	1047	4	2	37	41	5		99												9	1		55	5			21		8		8
14	2	12	16	1128	5	2	36	40	2		70												4	1		53	5			21				8
14	2	12	16	1134	6	2	36	40	2		55												4	1		51	5			21				8
14	2	12	16	2208	1	2	36	40			20													1		07	5			21				0
14	2	12	16	2231	2	2	36	41			90												4	1		54	5			21		8		8
14	2	12	18	0409	11	2	49	57	3		89												3	1		78	8	1		21				0
14	2	12	18	0747	12	2	42	47	3		95												4	1		70	8	1		21				0
14	2	12	19	0353	9	2	29	30			60		16													02	8			21				0
14	2	12	22	0520	11						87												4	1		81	3			21		8		8
14	2	12	30		13					1	35												4	1		02		4		21				8
14	2	12	30	0408	14	2	51	59	9		89												4	2		79	8			21				8
14	2	12	30	0849	15						95															66				21				
14	2	12	30	0905	16						93												9	2		64	7			21				8
14	3	1	13	0710	20	2	45	50			90												3	1		60				21				0
14	3	2	8	0835	3	2	41	46	3		95												4	3		03	8			21				1
14	3	2	8	0935	4	2	39	44	3		95												4	1		02	8			21				1
14	3	2	8	0955	5	2	38	42	3		95												4	1		01	8			21				1
14	3	2	15	1001	7	2	37	41			97												4	1		65	4		2	21				1
14	3	2	15	1044	8	2	36	40			85												3	1		59	8			21				1
14	3	2	20	0712	10	2	45	56			90												4	1		81	8			21				0
14	3	2	22	1000	12	2	40	47	3		95												4	2		73	7		1	21				4
14	3	3	11	0953	14	2	38	37			180												4	3		62	4		8	21				8
14	3	3	11	1015	15	2	37	39			178												4	3		61	4		8	21				8
14	3	3	11	1035	16	2	37	39			178												4	3		61	4		8	21				8
14	3	3	28	0454	18	2	47	59			96												4	1		57	5			21		8		9
14	3	3	28	0733	20	2	42	51	3		96												4	1		59	7			21				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude 100-ft			Flight Distance				Liquid Water Content 0.01-g/cu m	Nature of Icing 00.1-in/hr		0.01			Meteorological Conditions				Aircraft				
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_O L_O$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	H (a)	S S (a)	$A_s A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
14	3	4	2	2155	1	2	35	38			50		150										4	3		53	3			21				0
14	3	4	4	0845	2	2	37	38			120		80										9	2		62	9		8	21				8
14	3	4	4	0900	3	2	37	39			80		40										9	2		58	9		8	21				8
14	3	4	17	0910	5	2	38	43			100												3	3		65	8			21				1
14	3	4	28	1040	8	2	37	24	4		135												3	1						21				1
14	3	4	28	1205	9	2	37	32			190												4	1		66				21				1
14	3	5	1	0430	10	2	47	59			95												4	1		55	5			21				1
14	3	5	1	0500	11	2	46	55			95												4	1		51	5			21				1
14	3	5	4	0824	13	2	42	51			100												4	1		58	5			21				0
14	3	5	4	0827	14	2	42	50			100												4	1		58	5			21				0
14	3	5	4	0830	15	2	42	50			100												4	1		57	5			21				0
14	3	5	9	0510	18	2	37	28	4		191												4	1		65	3			21				0
14	3	5	21	0737	20	2	43	52			99												4	1		59	3			21				0
14	3	5	28	2300	3	2	31	34			189												4	3		55	5			21				0
14	3	12	13	0755	1	2	42	47	3		87												3	1		65	8			21				1
14	3	12	13	1002	2				3		90												5	1		63	8			21				1
14	3	12	18	2118	5	2	32	35			96												3	1		55	5			21				0
14	3	12	18	2143	6	2	31	34			96												3	1		54	5			21				0
14	3	12	18	2213	7	2	31	33			100												3	1		55	5			21				0
14	3	12	22	0350	7	2	35	39			140												4	1		55	4			21				0
14	3	12	23	1055	8	2	36	40	2		100	56	20	12	23			014		021		007	4	2	2	60	3			21	234			1
14	3	12	26	0350	13	2	40	44			192	196	194	27	40			008		014		016	4	1	2	81	3			21	269			1
14	3	12	26	0610	14	2	47	53			173												4	1		81	3			21				1
14	3	12	26	0928	15	2	48	55			106	106	106	16	16			011		016		011	4	1	1	65	4			21	240			1
14	3	12	26	0949	16	2	47	53			92												4	1		62	3			21				1
14	3	12	26	1001	17	2	46	53			92												4	1		62	3			21				1
14	3	12	26	1025	18	2	45	51			105	105	105	15	38			004		006		004	4	1	2	62	3			21	226			8
14	3	12	26	1056	19	2	44	50			92												4	1		62	3			21				8
14	3	12	26	1110	20	2	43	49			93												4	1		62	3			21				8
14	3	12	26	1129	1	2	43	48			106	105	103	16	20			006		008		005	4	1	2	62	3			21	240			8
14	3	12	26	1155	2	2	42	47			92												4	1		63	3			21				8
14	3	12	26	1227	3	2	41	45			94												4	1		66	3			21				8
14	3	12	28	0607	5	2	37	25	1		46	69	93	12	12			020		030		014	4	1	1		8			21	233			0
14	4	1	11	0325	3	2	50	59			130												4	1		60	5			21				0
14	4	1	11	1025	5	2	36	40			80												5	3		58	3			21				8
14	4	1	18	2134	7	2	36	45			85												4	1		52	7			21				1
14	4	1	19	0545	3	2	50	59			90												4	1		75	3			21				0
14	4	1	20	0655	11	2	43	48	3		93												4	1		73	7			21				0
14	4	1	20	1025	12	2	35	40	2		78												4	1		52	7			21				0
14	4	1	21	2335	4	2	37	42			170												5	1		77	4			21				0
14	4	1	22	0002	5	2	38	42			170												4	1		78	4			21				0
14	4	1	22	0425	6	2	50	59			100												5	1		73	4			21				8
14	4	2	4	0115	20	2	36	40			60												3	1		59	7			21				0
14	4	2	4	0922	17	2	45	51	3		94												4	1		73	4			21				0
14	4	2	4	0941	18	2	45	50	4		103												4	1		76	4			21				0
14	4	2	4	1025	19	2	43	48	3		105												4	1		75	8			21				0
14	4	2	7	0947	2	2	38	42			95												4	1		69	8			21				0
14	4	2	7	1015	3	2	37	41			96												4	1		70	3			21				0
14	4	2	11	0450	5	2	37	25			120												4	2		58	8			21				1
14	4	2	11	0458	6	2	37	26			120												4	3		58	3			21			8	9
14	4	2	15	2150	4	2	35	40			77	95	133	19	19			054		076		064	4	3	1	54	4			21	223			1
14	4	2	15	2202	5	2	35	39			160	165	184	9	9			032		052		017	4	1	1	60	4			21	258			1
14	4	2	20	0915	7	2	39	43	3		98	101	101	55	103			030		042		104	4	1	5	57	8			21	221			0
14	4	2	20	1009	8	2	37	42	3		101	101	103	4	22			043		061		010	4	1		57	8			21	222			0
14	4	2	28	0448	2	2	46	53			102	102	102	12	12			012		018		010	4	3	1	54	5			21	243			0
14	4	2	28	0613	3	2	43	48			95												4	1		54	4			21				0
14	4	2	28	0632	4	2	43	48			95												4	1		55	3			21				0
14	4	3	3	0458	7	2	47	53			102	102	102	12	12			036		052		027	4	1	1	62	3			21	231			8
14	4	3	3	0933	8	2	39	43			103	103	103	7	7			047		065		022	5	1	1	64	3			21	221			8
14	4	3	3	0949	9	2	38	43			101	101	111	11	11			043		058		029	4	1	1	63	8			21	217			8
14	4	3	3	1035	10	2	37	41			103	103	102	8	8			042		064		021	5	1	1	59	8			21	238			8
14	4	3	7	2306	12	2	37	40	4		55												4	1		56	5			21				0
14	4	3	7		13						183															79				21				
14	4	3	8	2210	17						30															04				21				
14	4	3	13	2132	19	2	35	40			50															55				21				
14	4	3	15	0138	2	2	29	31			150												4	1		52	4			21				0
14	4	3	22	0012	7	2	31	33			185												4	1		59	4			21				0
14	4	3	22	0017	8	2	30	33			185												4	1		59	4			21				0
14	4	3	22	0118	9						100												4	1		54	4			21				0
14	4	3	26	0530	11	2	49	57			88												3	1		69	4		1	21				0
14	4	3	29	2155	12	2	35	39			140												3	1		60	4			21				0
14	4	4	17	0222	9	1	67	49	3		80												4	1		65	3			21				7
14	4	4	17	0306	10	1	63	54			80												4	1		65	3			21				7
14	4	5	1	1902	14	1	62	59			83												3	1		60	4			21				1
14	4	5	1	2147	15	1	57	72			85												4	1		64	4			21				1

[a] Coded item.

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CG-8 back

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance			Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft				
											100-ft						0.01-g/cu m	00.1-in/hr		0.01									
	t_y	t_m	t_d	$t_h t_t t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$	$W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_aA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
14	4	5	6	1722	18	1	64	50			81	81	81	34	75			023		033		049	5	3	3	57	3			21	225			7
14	4	5	6	1759	19	1	63	54			80												4	1		57	4			21		2		7
14	4	5	6	1940	3	1	60	63	9		98	100	100	26	38			015		024		028	3	1	2	61	4			21	227			8
14	4	5	6	2002	20	1	59	64			100	100	100	22	33			036		051		052	5	3	2	63	3			21	221	4		7
14	4	5	6	2003	4	1	60	64	9		90															61	4			21				0
14	4	5	6	2017	5	1	59	66	9		90												3	1		61	4			21				8
14	4	5	6	2021	1	1	58	66			93												4	3		63	3			21				7
14	4	5	6	2035	6	1	59	67			101	101	101	37	59			009		013		024	4	7	3	65	4	1		21	223	4		8
14	4	5	6	2103	7	1	58	69			102	102	102	34	50			012		018		028				65	4			21	229			8
14	4	6	6	2325	2	2	40	44	3		189												3	1		58	3			21				0
15				2301	2	1	33	74			190	190	189	11	11			006		012		004	3	1	1	61	4			21	327			0
15	2	12	6	0016	6	1	37	53			185	185	185	31	83			012		021		024	4	1	5	63	4			21	261	3		2
15	2	12	6	0016	7	1	37	53			187												4	1		63	4			21		3		2
15	2	12	6	2150	5	1	35	60	4		160												4	1		57	4			21		2		0
15	2	12	10	2136	9	1	37	59			169	185	185	32	32			017		031		038	5	1	1	63				21	277			8
15	2	12	10	2219	10	1	38	58			177	176	176	33	59			042		046		086	9	1	2	67				21	178			8
15	2	12	29	2156	4	1	36	60			186															67	2			21				
15	2	12	29	2357	5	1	39	55			183												4	1		69	2			21				0
15	2	12	31	0347	8	1	27	61			186												3	1		63	7			21				1
15	2	12	31	0426	10	1	25	60			187	187	189	22	22			006		012		008	4	1	1	61				21	321			1
15	2	12	31	0411	9						188												4	1		61	7			21				1
15	3	1	6	0200	19	1	33	54			182	182	182	10	10			013		026		009	4	1	1	59	3			21	310			0
15	3	1	6	0315	20	1	30	55			188												4	1		59				21				0
15	3	1	6	0344	1	1	29	55			190												4	1						21				0
15	3	1	6	0428	2	1	27	56			192												4	1		59	3			21				0
15	3	1	8	0520	7	1	23	58			110		100										4			01	8			21				0
15	3	1	8	2120	4	1	33	60			60		105										4	3		01	5			21				2
15	3	1	8	2140	5	1	35	60			105		170										4	3		60	5			21				2
15	3	1	13	2300	2	1	32	72			187	187	185	10	10			023		045		015	4	7	1	64	4			21	314			9
15	3	1	14	0018	3	1	34	71			185	187	187	45	141			003		006		007	5	1	3	67	2			21	302	8		9
15	3	1	14	0120	4	1	35	66			187	187	187	16	16			006		012		006	5	1	1	60	2			21	313	8		9
15	3	1	15	2334	7	1	38	53			185												4	1		64	4			21				0
15	3	1	16		11						187	187	187																	21	313			
15	3	1	17	0045	12	1	37	53			188												4	1		62	2			21				2
15	3	1	17	0100	13	1	36	53			187	187	187	15	15			013		025		012	4	1	1	62	2			21	304			2
15	3	1	17	0127	14	1	35	54			187	187	187	20	30			021		040		026	4	1		61	2			21	302			2
15	3	1	17	0200	15	1	34	54			191												4	1		61	2			21				0
15	3	1	17	0245	16	1	33	54			190	190	190	10	31			005		010		003	4	1		60	2			21	312			0
15	3	1	20	2058	2	1	35	60	9		170		184										3	1		62	4			21				8
15	3	1	20	2305	3	1	38	54	9		184												3	1		65	4			21				7
15	3	1	20	2342	4	1	37	53	9		185												3	1		65	4			21				7
15	3	1	21	0027	5	1	36	55			186												3	1		64	4		4	21				7
15	3	1	21	0042	6	1	35	55			188												3	1		64	4			21				7
15	3	1	21	0208	7	1	31	56			191												3	1		61	4			21				0
15	3	1	28	0504	8	1	24	59			170												5	1		61	9	5		21				9
15	3	2	1		9	1	31	54			191												4	1		62	4			21				0
15	3	4	8	0408	4						191												4	1		63	9			21				0
15	3	4	8	2105	2						135	182	185	16	52			003		005		002	4	1			4			21	310			0
15	3	4	8	2340	3						188												4	1		64	4			21				0
15	3	4	25	0032	11	1	38	53			185	185	185	21	129			008		016		009	4	1	3	58	4		2	21	309			2
15	3	4	25	0140	12	1	34	54			185	184	187	26	67			009		018		015	4	1		55	4		2	21	311			
15	3	4	25	2154	10	1	36	60			170												4	1		54	4		2	21				0
15	3	4	30	0349	15	1	29	56			189												4	1		61	2			21				8
15	3	5	2	0020	2	1	38	53			178												4	1		71	2			21				9
15	3	5	7		4						184	184	184	35	35			005		011		013			1					21	299			
15	3	5	13	2140	20	1	38	61			181	184	184	20	75			003		006		003	5	1	2	59	4			21	299	4		8
15	3	5	13	2310	21	1	39	55			189												4	1		60	4			21		4		8
15	3	5	14	2140	6	1	37	61			188												4	1		60	4			21				1
15	3	5	14	2225	7	1	39	59			181	181	181	20	36			013		024		016	4	1	2	61	4			21	305			9
15	3	5	14	2315	8	1	39	55			190												4	1		61	4			21				9
15	3	5	14	2335	9	1	38	53			191												4	1		61	4			21				9
15	3	11	17	0451	6	1	25	58			191												4	1		64	8		2	21				8
15	3	11	17	2228	3	1	38	63			189												3	1		67	3			21				0
15	3	11	17	2314	4	1	39	60			187												4	1		68	3			21				0
15	3	11	17	2348	5	1	39	57			188												4	1		66	3			21				0
15	3	11	19	2215	8	1	38	63			189												4	1		62	3			21				0
15	3	11	19	2348	9	1	39	59			187												4	1		64	3			21				0
15	3	11	29	2210	11						190												4	1		61	3			21				0
15	3	11	29	2245	12						189												4	1		61	3			21				
15	3	12	1	2150	14	1	36	63			190												5	1		63	8			21				8
15	3	12	8	2215	17	1	38	63			187												4	1		64	4		71	21				1
15	3	12	10	0101	20	1	34	62			84												3	7		56	3			21				0
15	3	12	10	2232	19	1	28	63			160		183										3	7		75	4			21				0
15	3	12	13	2153	1	1	34	61			120		150										4	1		63	4			21				2
15	3	12	13	2345	3	1	39	58			183												4	1		62	4			21				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing						Meteorological Conditions				Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr		0.01												
	t_y	t_m	t_d	$t_t t_t t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_c A_c$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
15	3	12	17	0430	8	1	30	55			189											4	1		61				21				
15	3	12	19	0003	10	1	38	63			177											4	1		76	3			21				0
15	3	12	19	2253	9	1	34	62			140		160									4	1		57	3			21				1
15	3	12	27	0445	2	1	34	73			190											4	1		65	4			21				8
15	4	1	7	0022	3	1	38	39			184	179	190	16	57			026	039		026	6	3	3	66	2			21	246	1	6	9
15	4	1	9	2315	6	1	39	64			190	190	190	9	9			009	016		006	4	1	1	67	8			21	271			1
15	4	1	9	2315	7	1	39	64			180											4	1		67	8			21				1
15	4	1	12	2135	5	1	33	61			6	3	14	22	22			049	068		068	4	2	1		8			21	220			1
15	4	1	12	2220	6	1	35	62			150											4	1		65	4			21				0
15	4	1	15	0305	10	1	32	54			183											4	1		65	3			21				1
15	4	1	15	0343	9	1	34	54			183											4	3		62	4			21		3		8
15	4	1	15	2049	9	1	35	62			105	105	105	4	4			037	055		009	4	2	1	00	6			21	237			0
15	4	1	17	2157	11	1	35	62			185	187	187	25	84			014	022		018	4	1	3	69	3			21	253			8
15	4	1	17	2182	12	1	33	55			187											4	1		64	3			21				8
15	4	1	19	0218	12	1	39	53			183											4	2		68	7			21				1
15	4	1	21	2246	16	1	39	64			176											4	1		73	4			21				
15	4	1	23	0300	5	1	32	55			184	181	181	9	9			014	023		008	4	1	1	63	4			21	259			1
15	4	1	23	0323	6	1	31	56			188											4	1		63	4			21				1
15	4	1	23	2115	3	1	34	62			90		100									4	1		54	4			21				1
15	4	1	23	2155	4	1	36	62			185											4	1		65	4			21				1
15	4	1	25	2255	14	1	38	63	3		180											3	1		73	8			21				0
15	4	1	26	0335	15	1	29	56	3		186											3	7		64	4			21				0
15	4	1	26	0351	16	1	29	56	3		187											3	7		64	4			21				0
15	4	1	29	0513	19	1	26	57			184														65	4		71	21				0
15	4	1	29	2122	18	1	33	61			70		100									4	1		58	8			21				0
15	4	1	31		16						189	185	189	24	28			019	029		024			2					21	239			
15	4	1	31	0335	15	1	30	55			188											4	1		64	4			21				1
15	4	1	31	0514	17	1	26	57			190											4	1		63	4			21				1
15	4	1	31	2108	9	1	34	62			100		183									4	1		59	8			21				1
15	4	1	31	2124	10	1	39	63			174											4	1		75	8			21				1
15	4	1	31	2258	13	1	39	60			185											4	1		64	4			21				1
15	4	1	31	2318	14	1	39	58			187											4	1		64	4			21				1
15	4	1	31	2325	11	1	39	57			176											3	1		72	4			21				1
15	4	1	31	2340	12	1	39	55			179											2	1		72	4			21				1
15	4	2	1	0145	2	1	35	55			181											4	3		66	8			21				5
15	4	2	1	0430	3	1	27	57			187											4	3		60	8			21				1
15	4	2	1	2115	1	1	34	61			95											4	2		56	8			21				1
15	4	2	11	0356	18	1	33	61			98											3	1		60	8			21				0
15	4	2	11	0836	19	1	34	54			180											4	1		79	8			21				0
15	4	2	17	2210	2						183											4	1		66	4			21				0
15	4	2	19		1						183											4	1		66				21				8
15	4	2	19	2250	2						183											4	1		66				21				8
15	4	2	25	0252	4	1	31	56			183											9	3		63	5			21				8
15	4	2	25	0334	5	1	28	56			183											9	1		61	5			21				8
15	4	2	25	0351	6	1	27	56			183											9	1		61	5			21				8
15	4	2	25	0359	7	1	27	56			183											9	1		61	4			21				8
15	4	2	25	0435	8	1	25	57	2		140		120												53	4		52	21				0
15	4	3	2	0220	4	1	21	59			150	154	177	9	9			015	024		008	4	1	1	54	3			21	255			0
15	4	3	5	1956	2	1	11	53			192														59	4			21				0
15	4	3	5	2207	3	1	10	55			185	185	187	26	26			009	014		015	3	1	1	59	4			21	258			1
15	4	3	5	2207	4	1	10	55			192											3	1		59	4			21				1
15	4	3	5	2207	5	1	10	55			187	187	187	59	80			012	019		044	3	1	2	59	4			21	253			1
15	4	3	6	0128	6	1	13	54			189											3	1		57	4			21				0
15	4	3	6	0128	7	1	13	54			189											3	1		57	4			21				0
15	4	3	6	0140	8	1	13	54	3		191											3	1		57	4			21				1
15	4	3	6	0152	9	1	13	54	3		191											3	1		57	4			21				1
15	4	3	6	0320	10	1	14	54			190											9	1		58	4			21				1
15	4	3	6	0324	11	1	14	54			187	187	187	22	22			006	010		009	9	1	1	58	4			21	269			1
15	4	3	6	0326	12	1	14	54			187	187	187	26	39			011	018		018	9	1	2	58				21	262			1
15	4	3	6	0359	13	1	17	56			190											4	1		61				21				1
15	4	3	11	2247	13	1	37	62			186											4	1		68	3			21				
15	4	3	11	2332	14	1	39	61			184											4	1		69	3			21				
15	4	3	13	0013	15						90											4	2		52	3			21				8
15	4	3	13	0028	16						91	87	87	20	23			022	028		023	5	2		52	3			21	201			8
15	4	3	13	0050	17						85											5	2		52	3			21				8
15	4	3	13	2357	14						89	89	89	20	34			009	011		011	4	2	2	52	3			21	204			8
15	4	3	17	2227	18	1	32	55			103	106	140	34	46			010	015		023	4	1		67				21	228			1
15	4	3	19	2230	19	1	36	67			182	182	184	17	17			016	025		017	4	1	1	68				21	255			9
15	4	4	8	0500	3	1	10	76			183											4	3		56	3			21				8
15	4	4	25	0035	5	1	40	71			120		183									4	1		58	4			21				1
15	4	4	26	1127	7	1	17	65	4		170		193									3	7		61	4			21				0
15	4	4	26	1536	9	1	12	71			194											3	7		56	4			21				0
15	4	4	26	1715	9	1	17	71			193											5	1		59	4			21				9
15	4	4	26	1735	10	1	18	70			193											4	7		59	4			21				0
15	4	4	26	1820	11	1	19	65			193											4	7		57	4			21				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing						Meteorological Conditions				Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr		0.01												
	t_Y	t_m	t_d	$t_G t_t t_g$	N	O (a)	$I_a I_a$	$I_o I_o$	I_t (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_L$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16					1						107	110	114	21	34			004		007		005			2					21	257			
16					1						89	87	89	12	12			030		044		022			1					21	230			
16					1						105	105	105	8	8			011		015		005			1					21	231			
16					1						85	81	81	82	93			027		037		138			2					21	215			
16					2						81	81	81	14	14			018		024		016			1					21	211			
16					2						105	105	103	39	73			008		012		020			2					21	231			
16					3						83	81	81	25	25			018		025		030			1					21	217			
16					3						145	95	72	30	51			011		018		021			2					21	253			
16					4						192	190	190	41	57			021		033		056			2					21	243			
16					4						187	189	189	39	39			010		016		024			1					21	261			
16		8	23	2323	1	1	78	44			98												5	3		53	4			21		3		7
16		8	24	0700	2	1	70	54			183												4	1		61	4			21				7
16		8	24	0725	3	1	69	52			180												9	1		61	4			21		3		7
16		8	24	0804	4	1	68	52			180												6	3		60	4			21		5		7
16	4	4	7	1824	2	1	62	57			80												3	1		58	3			21				7
16	4	4	7	1850	3	1	62	59			68	81	83	14	14			050		068		045	9	2	1	59	3			21	216			7
16	4	4	7	1948	4	1	60	63			100	101	100	35	51			013		019		028	5	2	2	62	4			21	235			7
16	4	4	9	1655	3	1	65	47			60												3	1		66	4			21			0	0
16	4	4	9	2330	1	1	63	53			88												4	1		74	3			21				0
16	4	4	23	1919	9	1	61	62			98															60	3			21				0
16	4	4	23	1950	10	1	59	63			98												4	1		61	4			21				0
16	4	4	27	0135	12	1	54	76			97		120										4	1		61	8			21				0
16	4	4	29	2220	2	1	56	73			92												3	1		68	4			21				0
16	4	4	30	0632	15	1	70	53			175												4	1		78	0			21		2		0
16	4	4	30	0709	16	1	68	52			160												4	1		75	3	1		21		0		0
16	4	4	30	1705	4	1	65	47	1		100												4	1		67	4			21				7
16	4	5	7	0612	5	1	67	46			130												4	1		67	3			21				0
16	4	5	9	0032	12	1	54	75			131	145	185	12	12			010		016		008	3	1	1	70	3			21	247			0
16	4	5	9	1804	8	1	63	55			80												3	1		60	3			21			1	0
16	4	5	9	2022	9	1	59	66			96	100	100	74	81			022		030		100	5	3	2	57	3			21	221			8
16	4	5	9	2205	10	1	56	73			97	97	97	34	34			027		038		058	4	3	1	57	3			21	224			8
16	4	5	9	2228	11	1	56	75			100	100	101	19	26			010		014		011	4	3		59	3			21	224			8
16	4	5	10	2130	7	1	59	66			98												3	2		56	3			21				7
16	4	5	10	2147	8	1	58	67			98												4	3		61	3			21				9
16	4	5	10	2213	9	1	57	69			98												3	3		59	4			21				7
16	4	5	11	0115	10	1	54	76	1		90												3	3		59	4			21				7
16	4	5	11	0132	11	1	54	74			173												3	3		71	3			21				7
16	4	5	11	0157	12	1	54	74			173												3	3		71	3	2		21				7
16	4	5	11	0225	13	1	56	76			175												2	3		69	3			21				7
16	4	5	12	2315	17	1	57	72	3		100	100	100	12	12			024		036		018	3	1	1	59	4			21	238			7
16	4	5	12	2347	18	1	56	76			100	101	102	44	44			025		034		070	9	3	1	60	3			21	220	8		7
16	4	5	13	0310	19	1	57	79	3		174												4	1		77	3			21				7
16	4	5	13	0456	1	1	59	78			177												5	1		75	3			21				7
16	4	5	13	1932	18	1	59	63			95												5	1		60	4			21				0
16	4	5	13	2046	19	1	58	69			95												5	3		60	3			21		2		0
16	4	5	14	2012	4	1	58	68			97												5	3		61	4			21		3	4	1
16	4	5	14	2302	5	1	55	79			95												5	1		63	4			21		4	4	1
16	4	5	15	1829	6	1	62	57			80												4	1		58	3			21				0
16	4	5	15	1923	7	1	61	62			100												4	1		63	3			21				0
16	4	5	15	2017	8	1	59	66			100												5	3		63	3			21		2		8
16	4	5	16	1925	1	1	61	62			99												4	1		62	3			21				7
16	4	5	18	1919	12	1	60	62			98												4	1		62	3	1		21				0
16	4	5	21	0120	5	1	77	75			96												4	1		59	3			21				0
16	4	5	21	0140	6	1	76	00	1		105	119	173	79	79			025		037		128	5	1	1	59	3			21	236			8
16	4	5	21	1940	8	1	67	46			110												4	7		66	3		1	21				0
16	4	5	21	2315	18	1	54	74			97															61	4			21				0
16	4	5	22	0818	9	1	65	50	5		110												4	1		63	4			21				0
16	4	5	22	1720	11	1	64	50			81	81	81	8	8			013		019		006	3	1	1	57	6			21	238			7
16	4	5	22	1736	12	1	64	52			80												3	3		57			6	21			7	1
16	4	5	22	2305	17	1	77	72			105	105	105	4	4			051		080		013	3	1	1	59	4			21	247			0
16	4	5	22	2316	13	1	55	79	3		94		260											7					21		8		
16	4	5	23	0632	14	1	64	51			65												2	7			9			21		1		7
16	4	5	23	1945	20	1	67	45			125												4	1		66	4			21				7
16	4	5	23	2105	16	1	61	62			105	105	105	41	41			052		073		135	5	1	1	57	3			21	225	4		8
16	4	5	24	1912	3	1	61	62			100	100	100	4	4			034		048		008	4	1	1	58	3			21	224			0
16	4	5	24	1946	4	1	59	63			100	100	100	11	11			069		101		050	7	2	1	57	3			21	229	7		8
16	4	5	24	1957	5	1	59	64			102	102	102	8	19			013		019		006	4	1	2	59	3			21	228			8
16	4	5	24	2010	6	1	59	66			100												4	3		59	3			21				0
16	4	5	26	0145	5	1	57	78			194	194	194	70	74			013		021		058	5	3		72	3			21	262	3	7	7
16	4	5	26	2115	1	1	72	44			106	106	106	19	19			010		014		011	4	1	1	65	4			21	231			7
16	4	5	26	2129	3	1	57	70			106	106	106	19	19			030		044		037	4	1	1	62	4			21	229	2		7
16	4	5	26	2243	4	1	56	77			106	106	106	37	37			026		037		061	5	1	1	59	4			21	222	3		9
16	4	5	28	1700	2	1	65	47			80												4	3		56	3			21				7
16	4	5	28	1725	3	1	64	50			80												4	1		55	4			21				7
16	4	5	28	1742	4	1	63	52			80												4	1		55	4			21				7

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude				Flight Distance				Liquid Water Content		Nature of Icing					Meteorological Conditions					Aircraft				
											100-ft								0.01-g/cu m		00.1-in/hr		0.01												
	t_Y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	4	5	28	1814	5	1	63	55			80												5	2		58	3			21				7
16	4	5	28	1852	6	1	62	59	4		80												4	1		58	8			21				7
16	4	5	28	1905	7	1	61	60			80		105										5	1		63	4			21				7
16	4	5	28	2155	8	1	56	73			90												4	1		62	4			21				7
16	4	5	28	2224	7	1	76	43			95												3	1		66	4			21			1	4
16	4	5	29	0503	9	1	64	64	3		170												4	1		73	3			21				7
16	4	5	29	0655	10	1	64	50	3		70												4	1		54	3			21				7
16	4	5	29	1830	12	1	62	57			81												9	3		59	8			21		2		7
16	4	5	30		15	1	65	47			60																4			21				0
16	4	5	30	0548	18	1	65	57			139												4	1		68	8			21				0
16	4	5	30	0657	1	1	64	53			120												4	1		58	4			21				7
16	4	5	30	2010	13	1	59	65			92												6	1		63	3			21		2		7
16	4	5	30	2019	16	1	58	68			93												3	1		64	3	1		21				0
16	4	5	30	2119	17	1	56	73			92												4	1		66	3	1		21				0
16	4	6	1	2042	20	1	58	68			93												5	1		66	4			21				7
16	4	6	2		6																		4	1			3			21				0
16	4	6	2	1950	3	1	65	59			106	106	106	12	12			018		026		014	4	1	1	59	3			21	230			0
16	4	6	2	2000	7	1	59	67			106	106	106	4	4			012		018		003	4	1	1	56	3			21	244			0
16	4	6	2	2015	4	1	58	67			95												4	1		62	3			21				0
16	4	6	2	2045	8	1	57	71			98												3	1		58	8			21				0
16	4	6	3	0542	9	1	65	59			115	96	64										3	1	2	55	3			21	255			0
16	4	6	3	1856	11	1	62	60			84	84	106	12	12			021		033		017	3	1	1	56	4			21	243			7
16	4	6	3	1955	12	1	59	66			98												3	1		57	4			21				7
16	4	6	3	2115	15	1	57	70			109	109	109	47	78			026		039		078	4	3	3	60	4			21	233			9
16	4	6	3	2122	13	1	57	73			94												3	1		60	4			21				7
16	4	6	3	2149	14	1	56	76			107	107	107	12	16			009		009		004	3	1	2	60	4			21	238			7
16	4	6	4	1955	17	1	59	65			107	107	107	4	4			006		010		002	4	1	1	59	3			21	253			0
16	4	6	4	2011	18	1	58	66			109	115	110	53	60			035		050		117	5	1	2	59	3			21	225			8
16	4	6	4	2044	19	1	57	70			110	110	109										4	1	1	59	3			21	245			0
16	4	6	5	1832	1	1	62	59			89	89	89	8	52			007		006		002	9	2	2	56	8	1		21	240			7
16	4	6	5	2328	2	2	54	76	4		109	110	159	20	20			027		040		033	5	3	1	59	3		2	21	236			7
16	4	6	6		5																									21				
16	4	6	6	0137	3	1	58	80			179												3	1		68	4			21				7
16	4	6	6	0545	6	1	64	58			182	179	179	14	14			034		057		028	5	1	1	66	3			21	270			7
16	4	6	6	0621	7	1	64	53			151	131	114	26	43			028		045		044	4	3	2	61	3			21	260			7
16	4	6	6	0647	4	1	65	48	5		145												4	1			3			21				
16	4	6	6	1837	1	1	61	59			80		105										4	3		54	3			21				7
16	4	6	6	2003	2	1	59	66	4		109	110	118	27	27			035		052		061	6	1	1	60	3			21	234	3		7
16	4	6	6	2108	3	1	57	71			118	118	118	28	28			023		034		040	4	1	1	64	3			21	243			7
16	4	6	6	2245	4	2	55	79			107	107	106	31	31			021		031		043	9	1	1	60	3			21	235	3		7
16	4	6	6	2303	5	2	54	78			106	106	106	21	49			011		017		011	4	1	2	59	3			21	247			7
16	4	6	7	2323	9						94												3	1		63	4			21				0
16	4	6	9	2228	2	1	66	46			81	81	122	12	16			011		017		008	4	2		60	7			21	244			7
16	4	6	10	1836	5	1	64	52			82												4	2		53	3			21				7
16	4	6	12	0705	16	1	64	51			131	131	81	5	5			011		020		003	4	2	1	64	4		51	21	281			8
16	4	6	12	1811	8	1	64	51			76	76	76	83	90			019		028		101	5	2	2	54	7			21	236			8
16	4	6	12	1841	9	1	63	54			81	102	102	12	29			019		029		015	4	2	2	56	7			21	246			8
16	4	6	12	1920	10	1	62	58			105	102	102	32	32			039		059		080	5	2	1	63	4			21	237			8
16	4	6	12	1936	11	1	61	59			105	105	105	34	34			022		035		046	5	2	1	62	4			21	253			8
16	4	6	12	2214	12	1	57	73			93	93	93	12	20			002		003		002	4	2	2	57	4			21	241			8
16	4	6	12	2236	13	1	60	75			100	100	100	4	4			042		065		011	4	2	1	56	3			21	246			8
16	4	6	12	2247	14	1	56	79			100	100	100	4	4			075		115		019	4	2	1	56	4		5	21	242			8
16	4	6	12	2259	15	1	55	79	3		95												4	2		56	4			21				8
16	4	6	14	2055	20	1	57	69			96												3	1		56	3			21		2		0
16	4	6	15	1655	2	1	64	48			80												2			55	6			21				7
16	4	6	15	1745	3	1	63	53			80												4	1		54	6			21				7
16	4	9	8	2159	1	1	58	70			94												4	1		55	4			21				0
16	4	9	8	2211	2	1	57	70			93												4	1		55	4			21				0
16	4	9	12	0231	1	1	56	74			96	96	96	38	38			021		031		046	5	3	1	55	3			21	228			8
16	4	9	12	0300	2	1	56	74			102	103	103	184	231			020		031		239	5	3	3	55	3			21	235			8
16	4	9	12	0430	3	2	54	77			94												4	1		56	4			21				0
16	4	9	12	0457	4	2	53	77	4		94	120											4	1			4			21				0
16	4	9	13	0743	5	1	59	76			179	179	179	18	23			005		008		006	4	1		71	4			21	272			0
16	4	9	13	0925	6	1	64	66			183												4	1		69	4			21				0
16	4	9	14	1810	7	1	64	54			63	63	66	35	35			013		019		030	4	1	1	54	4			21	234			0
16	4	9	14	1902	8	1	62	58			69	70	90	16	57			011		017		010	4	1	3	53	4			21	245			0
16	4	9	15	1740	1	1	64	52			63	65	66	32	89			007		011		014	4	2	5	51	4			21	243			0
16	4	9	15	1929	2	1	61	61			100												4	1		55	4			21				0
16	4	9	15	1948	9	1	61	62			98												4	1		53	4			21				0
16	4	9	15	2050	10	1	58	67			89	95	96	96	177			014		021		076	4	1	5	54	4			21	242	8		8
16	4	9	15	2331	11	1	55	78			98												4	1		55	4			21				0
16	4	9	15	2352	3	1	55	78			92	92	92	12	24			010		016		008	4	2	2	54	8			21	242			0
16	4	9	16	0046	4	1	54	77			95	95	95	12	20			011		017		008	4	3	2	56	3			21	245			0
16	4	9	17	1815	5	1	64	52	3		69	71	72	35	62			018		026		035	9	2	2	55	8			21	233	8		0
16	4	9	18	0345	6	1	59	75			186												5	2			8		58	21		8		0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft			
										100-ft				0.01-g/cu m	00.1-in/hr		0.01									
	t_y	t_m	t_d	$t_1t_1t_1t_1$	N	(a)	L_aL_a	L_oL_o	L (a)	FFFFF	$Z_1Z_1Z_1$	$Z_2Z_2Z_2$	$Z_3Z_3Z_3$	DDD (mi)	$D_eD_eD_e$ (mi)	$t_et_et_e$ (min)	$t_it_it_i$ (min)	$W_aW_aW_a$ $W_mW_mW_m$	$R_aR_aR_a$	$R_mR_mR_m$	$I_tI_tI_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	A_tA_t (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	4	9	23	2231	7	1	76	44			88											4	1		75	8			21			0
16	4	9	24	0715	8	1	66	50			130											4	1		75	4		8	21			0
16	4	9	24	1711	9	1	64	49			80											4	1		55	4			21			0
16	4	9	24	1738	10	1	64	51			80											4	1		55	4			21			0
16	4	9	24	2139	11	1	56	74			97											9	1		63	4			21			0
16	4	9	24	2245	12	2	53	77			98											4	1		61	4			21			0
16	4	9	25	0643	13	1	65	52			60											4	1		54	4			21			0
16	4	9	25	1705	14	1	65	47	4		10											4	3		51	6			21			0
16	4	9	25	1727	15	1	64	50			80											4	3		55	3			21			0
16	4	9	25	1748	16	1	64	52			80											4	3		56	3			21			0
16	4	9	25	1812	17	1	64	54			80											4	3		57	3			21			0
16	4	9	26	2046	18	1	59	67			97											4	1		63	3			21			0
16	4	9	26	2138	19	1	57	71			97											4	1		60	3			21			0
16	4	9	28	1802	20	1	63	53			79											4	1		56	4			21			0
16	4	9	29	1802	1	1	64	53			79											4	1		56	4			21			0
16	4	9	29	1840	2	1	63	56			76											4	1		56	4		61	21			0
16	4	9	29	1947	3	1	61	62			98											4	1		58	4			21			0
16	4	9	29	2000	4	1	61	62			92	98	100	48	129			016	024	045	4	2	5	58	4			21	241		0
16	4	9	29	2342	5	2	55	78			96	98	98	48	64			018	028	050	4	1	3	55	4			21	241		0
16	4	9	30	0205	6	2	53	76			169	169	169	14	27			013	022	008	4	1	2	73	4			21	274		0
16	4	9	30	1706	7	1	63	57			180											4	1		62	4			21			0
16	4	10	5	1903	8	1	62	60	4		69	100	106	54	59			013	021	047	6	3		58	3			21	251		0
16	4	10	5	2332	9	2	54	77			80											4	1		58	3			21			0
16	4	10	6	0014	10	2	53	75			182											4	1		70	4			21			0
16	4	10	6	2315	11	1	66	47			35		85									4	1		63	7			21			0
16	4	10	7	1705	1	1	65	48			80											4	1		61	3			21			0
16	4	10	7	1705	12	1	65	48			80											4			61	3			21			C
16	4	10	7	1825	2	1	62	57			72	84	96	83	131			014	022	073	4	1	3	61	4			21	238		8
16	4	10	7	2035	3	1	59	67			84	87	89	32	60			019	029	038	4	1	4	62	3			21	241		0
16	4	10	8	0625	4	1	65	48			145											4	1		68	3			21			0
16	4	10	9	1734	5	1	65	49			70	71	71	19	35			006	010	006	4	1	2	60	3			21	230		0
16	4	10	9	1855	6	1	62	56			80											4	1		60	3			21			0
16	4	10	9	1913	7	1	62	60			74	95	89	26	26			018	030	030	4	1	1	61	3			21	262		0
16	4	10	12	1000	8	1	65	47			76	72	34	24	36			004	006	006	4	1	2	57	7			21	240		7
16	4	10	12	1715	9	1	65	49			77	100	101	41	61			023	037	063	5	1	2	60	3			21	243		0
16	4	10	13	1837	10	1	62	58	1		81	84	101	59	59			024	036	087	4	3	1	64	8			21	236		0
16	4	10	16	2220	11	1	57	72			92											3	1		69	4			21			0
16	4	10	16	2230	12	1	56	73			93											3	1		69	4			21			0
16	4	10	17	0454	13	1	61	73			174											3	1		81	2			21			0
16	4	10	17	0514	14	1	62	70			174											3	1			2			21			0
16	4	10	17	0628	15	1	65	63			181											3	1		81	2			21			0
16	4	10	17	2039	1	1	62	60			100											4	1		64	3			21			7
16	4	10	17	2239	2	1	57	70			92											4	1		65	4			21			7
16	4	10	18	0825	1	1	67	52			174	174	174	23	23			013	018	015	4	1	1	80	4			21	275		0
16	4	10	19	1853	2	1	65	47			55	64	78	12	12			059	087	044	3	1	1	57	3			21	232		0
16	4	10	19	1917	3	1	66	47	4		84	90	122	40	40			048	072	120	4	1	1	61	3			21	237		2
16	4	10	20	0810	4	1	65	48	2		57											3	1		54	3			21			0
16	4	10	20	1918	5	1	65	47			35		50									4	1			7			21			7
16	4	10	20	2105	1	1	64	52			120											3	1		67	4			21			0
16	4	10	21	0330	2	2	54	77			95											4	1		64	4			21			0
16	4	10	22	0107	3	1	82	45	1		102	101	137	21	21			016	021	022	4	1	1	75	3			21	212		0
16	4	10	22	2030	5	1	65	48			23	30	86	7	7			046	059	020	4	1	1		7			21	201		0
16	4	10	23	0720	6	1	62	58	3		73	76	92	16	28			019	030	020	4	1	2	60	3			21	240		0
16	4	10	23	0858	4	1	65	48	1		35											4	3			3			21			0
16	4	10	24	1207	7	2	54	79			99											4	1		70	3			21			0
16	4	10	24	1245	8	2	53	77			99											4	7		68	3			21			0
16	4	10	24	2050	6	1	59	66			100											3	1		64	4			21			0
16	4	10	26	2209	9	1	61	60			100											4	1		64	3			21			0
16	4	10	27	0139	10	1	61	61			110											4	1		67	4	1		21			0
16	4	10	27	0153	11	1	62	61			110											4	1		67	4	1		21			0
16	4	10	28	1730	12	1	65	50			80											4	3		62	3			21			0
16	4	10	29	2223	7	1	65	50			80											4	1		57	4			21			0
16	4	10	30	0004	1	1	80	44			83	89	171	31	42			007	010	013	4	1	2	77	3			21	230		7
16	4	10	30	0025	3	1	80	45			107	109	109	29	53			003	004	005	4	1	2	77	3			21	245	2	0
16	4	10	30	0900	8	1	63	70			174														79				21			0
16	4	10	30	1955	2	1	66	47			85		125									3	1		60	7			21			0
16	4	10	31	1805	9	1	63	54			87	89	91	8	8			048	070	024	4	3	1	57	3			21	232		0
16	4	10	31	1822	10	1	63	56			91	91	93	19	19			027	039	033	4	3	1	57	3		3	21	225		0
16	4	10	31	1923	11	1	61	61			91											4	1		59	4			21			0
16	4	10	31	1945	12	1	60	62			89											4	1		61	4			21			0
16	4	11	1	0714	13	1	65	48	5		130											4	1		69	4			21			0
16	4	11	1	1850	14	1	65	48	4		78	95	111	18	32			021	027	024	3	3	2	59	8			21	211		
16	4	11	2	2120	5	1	73	44			92											4	3		67	4			21			0
16	4	11	2	2152	15	1	74	45	4		140											3	1		70	8			21			
16	4	11	4	2120	16	1	73	44			92											4	1		63	4			21			0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance			Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft				
											100-ft						0.01-g/cu m	00.1-in/hr		0.01										
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$l_o l_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	4	11	4	2144	17	1	75	44			103	105	107	22	22			018		025		026	5	1	1		4			21	223			0
16	4	11	5	0434	1	1	76	64			187	187	187	17	34			005		008		006	4	1	2	83	8			21	253			0
16	4	11	6	0708	2	1	65	56			60												4	1		58	3			21				0
16	4	11	6	0720	3	1	65	57			65	68	68	40	61			015		020		038	4	3	3	59	3			21	202			0
16	4	11	6	1355	4	1	54	79			105	105	105	11	32			022		031		016	4	1	2	64	3			21	215			0
16	4	11	6	1724	5	1	60	64			91												4	1		66	3			21				0
16	4	11	6	2015	6	1	65	48	2		55	35	23	13	26			014		016		008	4	3	2		7			21	194			0
16	4	11	6	2045	6	1	65	48			60												2	1		58	7			21				0
16	4	11	7	1915	7	1	65	47			14		24										4	2			7			21				0
16	4	11	9	1923	1	1	61	62			92												4	1		60	4			21				0
16	4	11	9	2300	2	1	55	79			90												4	2		66	8		1	21				0
16	4	11	16	0057	2	1	82	44			91												3	1		75	4			21				0
16	4	11	16	0120	3	1	83	44	1		100		170										3	1		78	4			21				0
16	4	11	17	1725	4	1	64	49			84	84	84	24	24			024		032		039	4	1	1	60	7			21	207			0
16	4	11	17	1836	5	1	63	56			80												4	1		60	7			21				0
16	4	11	17	2218	6	1	56	74			99												4	1		65	4			21				0
16	4	11	18		7	1	65	47			80												3	1			6			21				0
16	4	11	18	1736	8	1	64	52			84	85	85	7	7			056		078		026	4	1	1	62	6			21	218			0
16	4	11	20	1704	9	1	64	49			84	84	84	14	14			020		027		017	4	1	1	60	3			21	216			0
16	4	11	20	2250	10	1	55	78	3		100	100	102	14	22			023		030		016	4	1	2	67	3			21	217			2
16	4	11	20	2305	11	1	54	78	3		102	103	102	10	10			015		020		011	4	1	1	67	3			21	208			0
16	4	11	21	0347	12	1	54	78			87												4	1		73	3			21				0
16	4	11	21	1017	13	1	64	56			174												4	1		81	4			21				0
16	4	11	22	1746	14	1	63	52			100												4	1		64	4			21				0
16	4	11	25	1855	1	1	61	60			100												4	1		64	4			21				0
16	4	11	26	1904	2	1	65	48	1														4	1			7			21				0
16	4	11	27	0815	3	1	65	48	2		100												4	1			7			21				0
16	4	11	27	1935	4	1	67	46			102	116	138	42	67			013		021		032	4	1	2	66	4			21	251			0
16	4	11	28		5	1	82	43			79												4	1		82	3			21				0
16	4	11	28	0720	2	1	65	47			80												4	1			7			21				0
16	4	11	28	1650	1	1	65	48			60		80										4	1		64	7			21				0
16	4	12	1		1	1	65	48	4				110										4	1		70	7			21				0
16	4	12	1	1850	6	1	65	47	1														4	1		60	7			21				0
16	4	12	3		2	1	65	47	1		50		70										3	1			6			21				0
16	4	12	7	2147	3	1	73	44			86												4	1		77	4			21				0
16	4	12	8	2137	1	1	57	72			85												3	1		65	4			21				0
16	4	12	9	2220	2	1	56	73			90												4	1		66	3			21				8
16	4	12	10	0252	3	1	56	76			180												4	1		76	3			21				0
16	4	12	14	1808	1	1	63	55			80												5	3		70	3			21		8		8
16	4	12	14	2133	1	1	73	43			91												3	1		78	3			21				0
16	4	12	15	1855	2	1	65	47			85												3	1		71	4			21				4
16	4	12	16	0820	2	1	56	74															5	1		78	3	4		21				0
16	4	12	16	2058	3	1	70	44			110		90										3	1		77	4			21				0
16	4	12	17	1710	3	1	65	47	4		80																6			21				0
16	4	12	17	1725	4	1	64	51			80												4	1		67	3			21				0
16	4	12	17	1935	4	1	67	46			85												4	1		65	3			21		3		0
16	4	12	19	2131	5	1	64	52			80												4	1		60	4			21				0
16	4	12	20	1852	5	1	65	48			35		85										4	3		65	7			21				0
16	4	12	20	2110	6	1	72	44			88												4	1		76	4			21				0
16	4	12	21	0510	7	1	66	46	4		125												4	1		72	4			21				0
16	4	12	21	1916	8	1	65	47			80		100										3	7		73	4			21				0
16	4	12	21	2107	9	1	72	44			86												3	1		69	4			21				0
16	4	12	22	2241	6	1	56	74			97												3	1		74	4			21				0
16	4	12	24	1928	8	1	60	62			94												4	1		69	4			21				0
16	4	12	25	0045	10	1	81	43			90												3	1		77				21				0
16	4	12	23	0058	7	2	53	75			183												3	1		80	4			21				0
16	5	1	5	2207	1	1	56	73			89												4	1		72	3			21				0
16	5	1	8	0131	2	1	70	43			92												4	1		76	3			21				0
16	5	1	8	0141	3	1	70	43			94												4	1		77	3			21				0
16	5	1	8	0200	4	1	70	43			100												4	1		78	3			21				0
16	5	1	8	0202	5						100												4	1		78	3			21				0
16	5	1	8	0210	6						97												4	1		77	3			21				0
16	5	1	8	0212	7						97												4	1		77	3			21				0
16	5	1	9	1943	8	1	61	60			100												4	1		64	3			21				0
16	5	1	9	2156	9	1	57	70			85												4	1		63	4			21				0
16	5	1	10	2120	10	1	73	44			90												3	1		64	3			21				0
16	5	1	10	2205	11	1	76	44			190												3	1		82	2			21				0
16	5	1	11	2024	12						87												4	1		67	3			21				0
16	5	1	13		13																		4	1						21				
16	5	1	14	1729	1	1	64	50			80												4	1		64	3			21				0
16	5	1	14	1839	2	1	63	58			80												4	1		65	3			21				0
16	5	1	15	0005	3	1	53	75			87												4	3		72	8			21				0
16	5	1	15	2250	4	1	76	44	9		130												4	1		71	4			21				0
16	5	1	16	1745	5	1	64	53	3		80												3	1		68	3			21				0
16	5	1	16	1751	6	1	64	53															3	1			3			21		2		0

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft				
											100-ft					0.01-g/cu m	00.1-in/hr		0.01									
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_O L_O$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	5	1	16	1802	7	1	63	55	4		85												4	1		70	3			21				0
16	5	1	16	1824	8	1	63	56			105												4	1		74	3			21		8		1
16	5	1	17	0107	9	1	54	75			183												4	1			3			21				0
16	5	1	17	1705	1	1	64	51			80												4	1		69	3			21				0
16	5	1	17	1724	2	1	65	49			80												4	1		70	3			21				0
16	5	1	19	2208	10	1	59	65			84												4	1		67	4			21				0
16	5	1	19	2234	11	1	57	68			83												4	3		67	4			21				0
16	5	1	20	1917	13	1	65	62	1		80												4	1		67	3			21				0
16	5	1	20	1946	12	1	64	59			60												4	1		64	3			21				0
16	5	1	21	0600	14	1	58	52			100															62				21				
16	5	1	22	0252	15	1	55	58			86												4	1		66	3			21				0
16	5	1	22	0323	16	1	55	56			86												4	1		66	3			21				0
16	5	1	22	0406	17	1	57	54	3		87												5	3		68	3			21				0
16	5	1	22	0439	18	1	58	52	3		88												4	1		68	3			21				0
16	5	1	22	1817	19	1	65	55			80												2	1		63	4			21				0
16	5	1	22	1909	20	1	65	62			80												2	1		64	4			21				0
16	5	1	22	1928	21	1	65	63			140												2			74	4			21				0
16	5	1	23	0015	22	1	52	76			160												2	1		74	4			21				8
16	5	1	23	0415	23	1	57	54			80												3	1		62	8			21				0
16	5	1	23	0440	24	1	59	52			98												3	3		62	8			21				0
16	5	1	23	0506	25	1	60	51			110												2	1		62	8			21				0
16	5	1	26	2100	26	1	57	70			89												4	1		67	4			21				0
16	5	1	27	0155	27	2	54	79			89												4	1		71	4			21				0
16	5	1	27	2018	28	1	64	53			80												3	1		62	3			21				0
16	5	1	28	2020	14	1	60	44	5		125	99											4	1		72	3			21				0
16	5	2	1	1005	1	1	61	59			85												4	2		62	3			21				0
16	5	2	1	1059	2	1	60	65	3		99												4	1		62	3			21				0
16	5	2	1	1139	3	1	58	67	3		99												4	1		63	4			21				0
16	5	2	1	1203	4	1	58	69	4		99	110											4	1		65	3			21		2		0
16	5	2	3	0905	1	1	63	54			85												4	1		62	3			21				
16	5	2	3	1017	2	1	61	61			100												4	3		66	3			21				
16	5	2	3	1107	3	1	60	64			90												4	1		66	3			21				
16	5	2	6	1359	5	1	56	76			98												5	1		63	4			21		4		8
16	5	2	6	1902	6	1	60	74			178												4	1		62	4			21				0
16	5	2	10	1034	4	1	69	44			125												4	1		77	4			21				0
16	5	2	10	1202	7	1	57	70			90												4	1		69	3			21				0
16	5	2	12	0840	8	1	64	52			80												4	1		82	4			21				0
16	5	2	12	1557	9	2	53	74			183												4	1		70	4			21				0
16	5	2	13	1258	1	1	57	71			100												4	1		61	4			21				0
16	5	2	13	1514	10	2	54	77	3		100												3	1		71	3			21				0
16	5	2	13	1600	2	2	53	76			100												4	1		70	3			21				0
16	5	2	15	1500	11	2	54	79	4		90	180											4	1		69	4			21				2
16	5	2	16	0950	12	1	63	55			80												4	1		70	3			21				0
16	5	2	16	1010	13	1	63	57			80												4	1		69	3			21				0
16	5	2	16	1555	14	1	56	76			90												4	1		69	3			21		8		0
16	5	2	17	1139	1	1	59	64			91												5	1		69	4			21				8
16	5	2	18	1146	2	1	59	66			94												4	1		66	3			21		2		0
16	5	2	18	1218	3	1	58	68			93												4	1		64	3			21		2		0
16	5	2	19	0230	1	1	65	48			70												4	1		70	4			21				
16	5	2	21	0933	4	1	62	56			80												3	1		63	3			21				0
16	5	2	21	0946	5	1	62	58			80												5	1		63	3			21				8
16	5	2	22	1105	8	1	59	65			97												5	1		62				21		6		8
16	5	2	22	1325	6	1	56	76	4		95												9	3		61				21		8		8
16	5	2	22	1554	9	1	55	78			93												4	1		66				21				0
16	5	2	22	1837	7	1	60	74			178												4	1		71	4			21				0
16	5	2	25		3	1	65	48	1		65												3	1			7			21				0
16	5	2	25	0755	10	1	65	47	4		40												5	3		65	7			21				8
16	5	2	25	1034	4	1	70	44			96												3	1		72	7			21				0
16	5	2	25	1220	11	1	57	70			97												4	3		56	4			21				0
16	5	2	25	1240	1	1	57	71			133												5	3		62	4			21				8
16	5	2	25	1410	2	2	55	79			180												4	1		70	4			21				0
16	5	2	25	1805	3	1	60	74			181												4	1		72	3			21				0
16	5	2	25	1841	4	1	62	71			180												4	1		69	3			21				0
16	5	2	26	0950	5	1	63	55			75												5	3		57	4			21				2
16	5	2	26	1012	6	1	63	59	4		76												5	2		56	3			21				8
16	5	2	26	1319	7	1	57	69			98												4	3		55	4			21				0
16	5	2	26	1510	8	1	55	78			98												4	2		53	4			21				0
16	5	2	26	1543	9	2	54	79			96												4	2		54	4			21				0
16	5	2	26	1657	10	2	53	75			179												4	1		69	4			21				0
16	5	2	26	2345	11	1	65	48	2														4							21				
16	5	2	28	0815	12	1	64	50			80												4	1		76	4			21				0
16	5	3	1	1207	2	1	56	74	4		97												4	1		57	4			21				0
16	5	3	1	1239	1	1	57	73			97												4	1		58	4			21				0
16	5	3	1	1537	3	1	59	66			181												4	1		76	4			21				0
16	5	3	2	2020	4	1	60	65			91												3	1		62	3			21				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft				
											100-ft					0.01-g/cu m	00.1-in/hr		0.01										
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_m W_m$	$R_a R_a R_m$	$R_n R_n R_m$	$I_t I_t I_t$ (in)	I_a (a)	I_d (a)	I_n	T T	C (a)	θ (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	5	3	4	1845	5	1	63	52			80											5	1		60	4		7	21				0
16	5	3	4	1916	6	1	63	54			80											4	1		58	4			21				0
16	5	3	4	2000	7	1	62	57			80											4	1		56	4			21				0
16	5	3	5	0059	8	1	61	62			180											4	1		75	4			21				0
16	5	3	5	0744	9	1	63	55			80											5	1		58	4			21				8
16	5	3	5	0805	5	1	69	51	3		180											4	1		75	3			21				0
16	5	3	5	0816	10	1	62	57			113											7	1		60	4			21				8
16	5	3	5	0911	11	1	61	61			120											4	1		63	4			21				0
16	5	3	6	1846	12	1	62	57			80											3	1		58	4			21				0
16	5	3	6	1914	6	1	66	46			84											2	3		62	4			21				0
16	5	3	7	2219	13	1	61	59	4		80											5			60	4		5	21				5
16	5	3	7	2244	14	1	61	60	4		120		130									5			63	4		5	21				8
16	5	3	8	1910	7	1	66	47			86											4	1		67	3			21				0
16	5	3	8	1935	15	1	62	60			100											4	1		68	4			21				0
16	5	3	8	2134	16	1	59	66			100											4	1		61	4			21				0
16	5	3	8	2221	1	1	58	69			100											5	3		59	4			21		8		8
16	5	3	8	2322	2	1	57	75			100											4	1		61	4			21				0
16	5	3	9	0009	3	1	55	78			100											4	1		63	4			21				0
16	5	3	9	0727	4				5		160											4	1		79	3			21				0
16	5	3	11	2246	5	1	55	76			93											3	1		60	4			21				0
16	5	3	11	2300	6	1	55	77			92											4	1		60	4			21				8
16	5	3	12	2156	1	1	57	72			93											5	1		65	3			21				8
16	5	3	13		8	1	62	70			80											3			60				21				
16	5	3	13	0716	9	1	64	56	5		100											4	1		67	3			21				0
16	5	3	15	2242	2	1	57	73			90											3	1		72	8			21				0
16	5	3	16	0037	3	1	57	79			168											3	1		92	8			21				0
16	5	3	16	0406	4	1	58	77			167											3	1		92	8			21				0
16	5	3	16	1850	5	1	62	58			80											4	1		66	7			21				0
16	5	3	16	2317	6	1	55	76			93											4	1		73	8			21				0
16	5	3	16	2352	7	1	54	79			93											5	1		73	8			21				0
16	5	3	22	2353	8	2	54	79			95											4	2		62	3			21				2
16	5	3	23	2148	1	1	74	44			98											4	1		67	3			21				0
16	5	3	23	2355	9	1	54	79			90											4	1		70	8			21				0
16	5	3	24	1835	10	1	62	59			80											4	1		65	4			21				0
16	5	3	24	1920	11	1	59	65			91											3	1		65	4			21				0
16	5	3	25	1958	12	1	60	65			88											3	1		67	7			21				0
16	5	3	25	2127	13	1	57	72			85											4	1		69	3			21		5		0
16	5	3	26	2035	14	1	56	76			88											3	1		69	3			21				0
16	5	3	26	2241	15	1	55	79			90											3	1		69	3			21				0
16	5	3	28	2020	16	1	69	44	5		100											4	1		73	4			21				0
16	5	3	29	0904	17	1	66	50	5		105		60									4	1		66	4			21				0
16	5	3	29	1935	18	1	60	64			89											4	1		74	3			21				0
16	5	3	29	2011	19	1	59	66			87											4	1			3			21				0
16	5	3	30	1851	20	1	61	60			100											3	1		67	3			21				8
16	5	4	1	2300	1	1	76	43			140														85				21				0
16	5	4	3	2020	2	1	70	43			93											3	1		70	4			21				0
16	5	4	3	2040	3	1	70	43			93											3	1		70	4			21				0
16	5	4	6	1752	2	1	63	54			80											4	1		65	3			21				
16	5	4	6	2330	3	2	54	78			93											4	1		66	4			21				
16	5	4	11	1921	6	1	54	78			105											4	2		61	3			21				8
16	5	4	11	1932	7	1	54	77			105												4	2		60	3			21				8
16	5	4	11	1946	5	1	55	80			101	102	114	13	13		014		023		012	4	3	1	58	4			21	256			8
16	5	4	12	2102	1	1	57	68			94												4	1		60	4	0		21		0	0	0
16	5	4	12	2143	2	1	56	71			101	103	105	37	111		012		018		028	4	1	3	56	4			21	247			0
16	5	4	12	2246	3	1	56	75			103	101	105	17	55		014		023		012	4	1	3	58	4			21	256			0
16	5	4	13	1900	4	1	62	60			80												2	1		63	4			21		0	0	
16	5	4	13	1912	5	1	62	60			80		100										2	1		63	4			21		0	0	
16	5	4	13	2138	6	1	57	70			100	100	101	25	46		008		013		013	9	1	2	67	4			21	252	0	0	
16	5	4	13	2317	7	1	55	75			90												4	1		65	3			21		0	0	
16	5	4	13	2340	8	1	55	76			102	101	103	17	25		007		011		007	4	1		65	4			21	254	0	0	
16	5	4	14	1808	9	1	62	55	3		80												4	1		65	7			21				0
16	5	4	14	1906	10	1	61	60			89												4	1		68	3			21				0
16	5	4	14	2025	11	1	58	66			95	95	98	12	12		018		028		014	4	1	1	63	3			21	247			0
16	5	4	14	2324	12	1	55	78			96												4	1		57	3			21				0
16	5	4	15	0022	13	1	54	79			100	100	102	21	21		034		053		045	4	3	1	58	3			21	246			0
16	5	4	15	0115	14	1	53	76			93												4	1		57	3			21				0
16	5	4	17	2207	15	1	57	70			89												3	1		74	4			21				0
16	5	4	17	2222	16	1	56	71			89												3	1		73	3			21				0
16	5	4	19	1830	1	1	60	57			80												4	1		66	4			21				0
16	5	4	19	1935	2	1	60	63			96	96	100	16	20		012		019		010	4	2		63	3			21	243			0
16	5	4	19	2300	3	1	55	73			88												4	1		70	8	1		21				0
16	5	4	19	2330	4	1	55	76			89												4	1		70	8			21				0
16	5	4	20	1727	5	1	64	52			80												3	1		65	3			21				0
16	5	4	21		6						80												4	7		68	3			21				0
16	5	4	22	1738	7	1	64	51			80	81	84	20	20		008		013		011	4	1	1	71	4			21	241			0

(a) Coded item.

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CG-9 back

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing							Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr		0.01														
	t_y	t_m	t_d	$t_t t_t t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	5	4	26	0245	8	1	68	45			53	56	97	24	31			004		006		006	4	1		64	7			21	235			0
16	5	4	26	2318	9	1	54	76			100	101	103	37	45			023		036		049	4	3	2	60	3			21	247			0
16	5	4	27	2104	10	1	57	69			100	101	101	21	21			016		025		020	4	3	1	61	3			21	249			0
16	5	5	16	2341	1	1	53	77			97												4	1		66	8	1		21				0
16	5	5	17	1834	2	1	62	57			80												4	1		59	3			21				8
16	5	5	17	1848	3	1	62	58			80												4	1		60	3			21				8
16	5	5	19	1700	4	1	63	49	1		40		80										4	3		54	4			21				0
16	5	5	19	1741	5	1	63	55			80												4	1		60	3			21				0
16	5	5	19	1810	6	1	63	56	1		80		100										4	1		60	8			21				0
16	5	5	19	2150	1	1	74	44			100												4	1		56	3	1		21				0
16	5	5	19	2237	2	1	76	44			100												4	1		60	3	1		21				0
16	5	5	20	0830	3	1	65	48	2		100												4	1		58	3			21				0
16	5	5	20	1745	7	1	64	52			74	76	76	16	52			008		012		008	4	2	2	60	8			21	241			0
16	5	5	21		4	1	65	47			50												3	1			7			21				0
16	5	5	21	0655	8					2	140												4	2			8			21				0
16	5	5	21	1718	9	1	64	50			80												4	2		58	8			21				0
16	5	5	21	1737	10	1	63	52	3		80												4	1		58	3			21				0
16	5	5	22	1803	1	1	63	55			76	76	77	17	38			003		005		004	4	1	2	58	4			21	253			0
16	5	5	22	1850	5	1	65	48			80	83	80	23	54			023		035		035	4	3		56	3			21	232			0
16	5	5	22	1916	2	1	61	61			99												4	1		62	4			21				0
16	5	5	22	1937	6	1	67	46			65												4	2		57	3			21				0
16	5	5	22	1955	7	1	68	45	4		80												4	1		61	3			21				0
16	5	5	22	2025	8	1	70	44			119	118	118	51	114			014		021		043	4	7	3	65	4			21	236			0
16	5	5	22	2113	9	1	72	44			119	118	119	32	36			012		019		023	4	2		64	4			21	238			0
16	5	5	23	1824	3	1	62	56			80												4	1		55	3			21				0
16	5	5	24	1844	4	1	62	59			86	107	103	20	37			008		014		007	5	1	2	60	3			21	245			1
16	5	5	24	2020	5	1	59	67			103	103	107	42	42			007		011		020	4	1	1	60	3			21	254			0
16	5	5	24	2233	6	1	55	78			103	106	107	21	47			006		009		006	4	1	3	69	4			21	257			0
16	5	5	25	1750	7	1	64	54			80												3	1		57	4	1		21				0
16	5	5	25	2220	8	1	56	75	4		100	114	122	141	201			012		019		110	5	2	2	63	3	1		21	257			0
16	5	5	26	0600	9	1	65	61	2		100												3	1		59	3			21				0
16	5	5	26	0622	10	1	65	58			76	77	78	13	55			008		013		007	4	2	3	54	3	1		21	256			0
16	5	5	27	1853	1	1	65	48			48												4	2		51	7			21				0
16	5	5	27	1913	2	1	66	47			85												4	3		59	3			21				0
16	5	5	27	2037	3	1	70	44			118	118	118	13	13			009		016		008	4	3	1	60	3			21	267			0
16	5	5	27	2059	4	1	71	44			94												4	3		62	3			21				0
16	5	5	27	2142	11	1	56	72	3		103	103	102	4	4			025		040		007	5	1	1	60	3			21	253			0
16	5	5	28	1810	1	1	62	56			80												4	1		58	4			21				0
16	5	5	28	1856	5	1	66	47	3		60												3	1		55	8			21				0
16	5	5	28	1907	6	1	66	47	3		105	105	105	12	20			056		083		042	4	1	2	56	8			21	235			0
16	5	5	28	1923	7	1	67	46	3		85												4	1		57	8			21				0
16	5	5	28	1953	8	1	68	45	3		147	147	147	21	42			048		075		063	4	1	2	67	8			21	249	4		0
16	5	5	28	2225	2	1	55	77			100	100	101	33	45			032		051		068	5	2	2	57	3			21	248	8		8
16	5	5	28	2250	3	1	54	79			92												4	1		57	4			21				0
16	5	5	28	2307	4	1	54	80			91												4	1		55	4			21				0
16	5	5	28	2353	5	2	53	72	4		89												4	1		53	4			21				0
16	5	5	29		9	1	65	47	4		84	84	84	19	41			023		034		029	4	3	2	53	7			21	224			0
16	5	5	29	0136	6	2	55	78	5		120												4	1		63	4			21				0
16	5	5	29	1940	7	1	59	64	4		96	134	179	127	220			018		029		130	8	2	6	59	3			21	254		4	2
16	5	5	29	2004	10	1	68	44	4		131	131	131	27	50			055		081		094	5	1	2	62	8			21	231	8		8
16	5	5	29	2345	8	2	52	74			171												4	1		73	3			21				
16	5	5	30		9	1	65	49			76	80	81	29	90			010		015		017	4	1	4		4			21	246			0
16	5	5	30		10	1	65	49			81	107	107	45	97			017		026		049	4	1	3		4			21	243			0
16	5	5	30	1855	11	1	62	59			80												4	1		59	4			21				8
16	5	5	30	1859	11	1	65	47			107	107	107	24	43			025		039		025	4	2	2	57	3			21	236			0
16	5	5	30	2010	2	1	60	65			109	110	120	26	26			005		009		008	4	1	1	62	3			21	258			0
16	5	5	31		12						163	157	148	50	50			025		039		080			1					21	252			
16	5	5	31	0010	3	1	55	78			102	119	169	53	131			014		022		049	4	1	4	61	4			21	246			0
16	5	5	31	0804	8	1	66	49	5		130		120											1		67	3			21				0
16	5	5	31	1742	13	1	64	50			100	100	100	16	16			022		035		024	4	1	1	58	4			21	247			0
16	5	5	31	1819	14	1	64	54			100	100	100	12	12			035		054		027	5	2	1	59	8			21	243			0
16	5	5	31	1905	4	1	66	47			85												4	1		56	3			21				0
16	5	5	31	1917	5	1	66	47			85												4	1		56	3			21				0
16	5	5	31	1942	6	1	67	47			125												4	2		63	3			21				0
16	5	5	31	2005	15	1	60	60			92												3	1		66	4			21				0
16	5	5	31	2006	7	1	69	47	5		127		99										4	2		63	3	1		21				0
16	5	5	31	2010	12	1	59	64			100												4	1		62	3			21				0
16	5	6	1	1952	9	1	67	44	4		89	97	122	8	8			023		036		012	5	1	1	58	8			21	247			0
16	5	6	1	2009	10	1	67	44			125												4	1		65	8			21				0
16	5	6	1	2206	11	1	76	44			96												4	1		61	7			21				0
16	5	6	1	2224	12	1	76	44			102	102	103	33	33			013		021		027	5	1	1	62	7			21	247	8		
16	5	6	2	1801	1	1	63	54			80												4	1		61	7			21				0
16	5	6	2	1910	1	1	66	46			70												3	1		54	8			21				0
16	5	6	2	1950	2	1	68	45			125												3	1		58	8			21				0
16	5	6	2	1952	2	1	60	63			92												4	2		67	3			21				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location				Pressure Altitude	Flight Distance			Liquid Water Content	Nature of Icing				Meteorological Conditions				Aircraft			
										100-ft				0.01-g/cu m	00.1-in/hr		0.01									
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	5	6	2	2010	3	1	69	44			125												3	1		58	8			21				0
16	5	6	2	2015	3	1	59	65	4		119	120	120	12	19			038		055		028	5	3	2	68	4			21	233			8
16	5	6	3	1806	4	1	63	54			80												4	1		59	8			21				0
16	5	6	3	1952	4	1	68	45			125												4	3			8			21				0
16	5	6	4	1737	5	1	64	52			80												3	1		56	4			21				0
16	5	6	4	1803	6	1	63	55	9		80												2	1		57	4			21				0
16	5	6	4	1816	7	1	62	57			80												4	1		57	4			21				0
16	5	6	4	1900	5	1	67	48			109	109	109	4	4			014		023		004	4	2	1	57	8			21	251			0
16	5	6	4	1908	8	1	60	61			94												4	3		62	3	1		21				0
16	5	6	4	1940	6	1	68	46			109	110	153	20	20			057		086		071	7	2	1	60	3			21	238			8
16	5	6	4	2041	7	1	70	43			119	119	119	12	20			012		017		009	4	1	2	62	3			21	239			0
16	5	6	4	2100	8	1	71	43			119	119	119	8	8			023		035		012	9	3	1	64	3			21	238			0
16	5	6	4	2130	9	1	56	72			95												4	1		57	4			21				0
16	5	6	4	2230	10	1	55	77			95												4	2		56	3			21				0
16	5	6	4	2236	9	1	75	43			96												4	2		62	3			21				0
16	5	6	5		15	1	65	47	1		77	80	81	35	122			026		043		050	4	2	5		7			21	261			
16	5	6	5		17	1	59	65			103	102	106	9	9			044		072		024	3	2	1	60	4			21	259			0
16	5	6	5		18	1	65	47	2		100												4				3			21				0
16	5	6	5	0015	10	1	79	43			98												4	1		63	3			21				0
16	5	6	5	0055	11	2	53	75			183												4	1		66	3			21				0
16	5	6	5	0130	12	2	53	75			189	189	189	25	25			016		030		026	5	1	1	68	3			21	296			8
16	5	6	5	0150	13	2	54	76			182												4	1		67	3			21				0
16	5	6	5	0709	14	1	64	51	2		110												4	2		61	3			21				0
16	5	6	5	1810	16	1	63	56			80												3	2		58	3			21				0
16	5	6	5	1849	11				1		15												3	2			7			21				8
16	5	6	6	0024	13	1	79	43			95												4	1		68	4			21				0
16	5	6	6	1720	1	1	64	50			80												4	1		55	8			21				0
16	5	6	6	1720	19	1	64	50			80												4	1		55	8			21				0
16	5	6	6	1733	2	1	64	51			77	77	78	12	12			008		013		007	4	3	1	56	3			21	247			0
16	5	6	6	1733	20	1	63	51			80												4	3		56	3			21				0
16	5	6	6	1904	3	1	62	60	4		79	106	120	160	160			021		034		214	9	2	1	57	3			21	252			0
16	5	6	6	1904	21	1	61	60	4		80		100										9	2		57	3			21				0
16	5	6	6	2020	12	1	68	44	4		85												4	3		56	8			21				0
16	5	6	6	2235	4	1	56	75			102	107	107	26	111			015		024		025	4	2	5	54	8			21	255			0
16	5	6	6	2235	22	1	56	75			100												4	2		54	8			21				0
16	5	6	7	1853	14				4		119	119	119	87	122			023		033		122	5	1	2	64	3			21	237			8
16	5	6	7	1914	5	1	66	46			85												4	2		56	3			21				0
16	5	6	7	1925	6	1	66	46			85												4	2		59	3			21				0
16	5	6	7	1931	1	1	59	64	4		116	116	128	24	59			033		049		050	5	1	2	63	3			21	237			8
16	5	6	7	1959	7	1	68	44	4		107	114	101	54	85			035		059		110	7	1	3	61	4			21	268			8
16	5	6	7	2025	2	1	59	66			106												4	1		64	3			21				0
16	5	6	7	2041	3	1	58	67			128	128	128	12	12			025		039		020	4	1	1	64	3			21	245			0
16	5	6	8	0027	8	1	82	44			97												4	7		63	4			21				0
16	5	6	8	1945	4	1	61	59			100												4	1		61	4			21				8
16	5	6	8	1953	9	1	68	45			90												4	1		55	3			21				
16	5	6	8	2045	5	1	57	69			118	118	118	70	74			008		011		033	5	3		64	3			21	234			8
16	5	6	9	1718	10	1	64	51			80												4	1		54	4			21				0
16	5	6	9	1810	11	1	63	56			80												4	1		54	4			21				0
16	5	6	9	1822	12	1	62	57			79	79	84	21	21			016		025		020	4	1	1	53	4			21	249			0
16	5	6	9	1917	6	1	65	46			85												3	1		56	7			21				0
16	5	6	9	1938	7	1	67	46	3		126	134	151	12	12			022		035		017	5	3	1	59	8			21	244			0
16	5	6	9	1954	8	1	68	45	3		130												4	1		63	8			21				0
16	5	6	9	2142	9	1	73	43	3		116	116	116	12	24			010		016		006	5	1	2	59	3			21	241			0
16	5	6	10	1956	10	1	68	43			107												3	2		56	3			21				0
16	5	6	10	2204	13	1	56	74			111												4	1		59	3			21				0
16	5	6	10	2245	14	1	55	78			112												4	1		58	3			21				0
16	5	6	11		12	1	65	47			96	96	96	20	80			040		059		049	4	1	4		7			21	241			8
16	5	6	11	0823	11	1	66	50	5		185	179	142	10	10			014		027		009	4	1	1	64	3		6	21	313			0
16	5	6	11	1659	15	1	65	48			80												4	2		54	3			21				8
16	5	6	11	1744	16	1	64	53			80												4	2		55	3			21				8
16	5	6	11	1811	17	1	63	56			80												4	2		54	3			21				8
16	5	6	11	1945	13	1	67	45			141	144	144	67	120			039		062		166	4	1	5	58	4			21	250			8
16	5	6	12	0040	2	1	72	43			119	119	119	8	8			053		079		026	4	2	1	56	3			21	238			0
16	5	6	12	0719	14	1	69	52			180												4	1		70	3			21				8
16	5	6	12	0945	15	1	65	47			70												4	1		65	7			21				8
16	5	6	12	1700	18	1	65	47			40												4	2		51	7			21				0
16	5	6	12	1854	19	1	63	57	4		80													3		59	4			21				
16	5	6	12	2022	1	1	65	47	4		70		85										4	2		55	8			21				0
16	5	6	13	0107	20	2	53	76	3		113												4	2		56	4			21				0
16	5	6	13	0200	21	2	54	76			183												4	1		67	4			21				0
16	5	6	13	0220	22	2	55	77			184												4	1		67	4			21				0
16	5	6	13	0500	23	1	62	69			182												4	1		74	4			21				0
16	5	6	13	1720	24	1	64	50			80												4	1		59	4			21				0
16	5	6	13	1906	3	1	65	47			85												4	1			7			21				0
16	5	6	13	1946	4	1	68	46			107	128	122	16	63			054		082		055	4	1	3	59	8			21	238			0

* Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content	Nature of Icing						Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m	00.1-in/hr		0.01													
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_c A_c$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	5	6	14	0035	5	1	82	43			119	119	119	20	31			009		014		009	4	1	2	62	3			21	234			0
16	5	6	14	2207	6	1	55	75			126	122	119	57	118			008		012		025	4	3	4	52	3			21	245			0
16	5	6	15	1709	1	1	64	50			70												3	1		55	4			21				0
16	5	6	15	1818	2	1	62	57			80												4	1		58	3			21				0
16	5	6	15	1858	7	1	65	47	4		60												3	1		51	4			21				0
16	5	6	15	1901	3	1	61	65			100												4	1		57	3			21				0
16	5	6	15	1947	8	1	67	45	4		118	118	147	4	4			077		012		020	5	3	1	58	4			21	245			8
16	5	6	15	2044	9	1	70	43			95												4	1		60	4			21				0
16	5	6	15	2100	10	1	71	43			119	119	119	20	39			027		042		028	4	1	3	61	4			21	234			8
16	5	6	15	2129	11	1	73	43	4		119	156	211	24	80			012		017		018	5	1	4	58	4			21	240			8
16	5	6	15	2143	4	1	56	74			98												4	1		52	3			21				0
16	5	6	15	2201	5	1	56	76			98												4	1		53	3			21				0
16	5	6	15	2342	6	1	54	77			97												4	1		57	3			21				0
16	5	6	16	0604	12	1	68	52			180												4	1		69	3			21				0
16	5	6	16	1915	1	1	67	48	4		85												4	3			4			21				0
16	5	6	16	1954	2	1	68	46			153	153	153	19	19			014		020		017	4	1	1	66	3			21	229			0
16	5	6	16	2013	3	1	69	45			153	142	119	18	23			010		017		011	4	1	1	65	3			21	270			0
16	5	6	17	1857	4	1	65	47			89	126	138	31	74			027		040		053	4	1	5	54	7			21	235			0
16	5	6	17	2020	5	1	69	45			147	131	119	25	46			011		018		019	4	1	2	67	3			21	252			0
16	5	6	18	0007	6	1	78	43			119	127	187	92	137			015		021		087	4	1	3	66	3			21	229			0
16	5	6	18	1925	7	1	65	46	4		82		85										4	2		54	4			21				0
16	5	6	18	2149	7	1	57	72			99												4	2		54	3	1		21				0
16	5	6	19	0607	8	1	66	46	5		135		105										4	3		59	3			21				0
16	5	6	19	1917	8	1	61	60			97												4	1		54	4		6	21				0
16	5	6	19	1930	9	1	66	46			92	97	131	7	7			027		037		012	4	2	1	56	3			21	224			0
16	5	6	19	2023	9	1	56	73			107	110	110	115	168			017		022		121	5	1	3	58	3			21	215	8		8
16	5	6	19	2102	10	1	71	43			122	122	119	12	12			015		023		011	4	1	1	63	4			21	234			0
16	5	6	19	2239	11	1	75	43			90												4	7		66	4			21				0
16	5	6	19	2315	12	1	77	43			128	140	199	42	58			013		020		036	5	1	2	70	4			21	231			0
16	5	6	20	0639	13	1	69	52	4		172		180										4	1		76	3			21				0
16	5	6	20	0648	1	1	68	51			180												4	1		74	4			21				0
16	5	6	20	1762	10	1	65	51			80												3	1		52	4			21				8
16	5	6	20	1802	11	1	64	54			80												4	2		54	3			21				8
16	5	6	20	1903	2	1	66	47			85												4	3		52	8			21				0
16	5	6	20	1908	12	1	62	60	4		90	95	106	7	7			020		029		009	5	2	1	55	3			21	222			8
16	5	6	20	1941	3	1	67	46	4		85		125										3	1			4			21				0
16	5	6	20	2000	4	1	69	45	3		125												4	1		61	3			21				0
16	5	6	20	2015	5	1	69	44	5		141	135	116	9	9			026		046		015	5	1	1	61	3			21	279			0
16	5	6	20	2238	6	1	77	43			90												4	1		67	4			21				0
16	5	6	21	1740	7	1	63	53			80												3	1		53	4			21				0
16	5	6	21	1758	8	1	63	54			80												4	1		53	4			21				0
16	5	6	21	1816	9	1	62	56			80												4	1		54	4			21				0
16	5	6	21	1835	10	1	62	57			80												4	1		55	4			21				0
16	5	6	21	1913	1	1	66	46			90	90	90	15	26			008		011		008	3	1	2	54	4			21	223			0
16	5	6	21	1927	11	1	60	62			100												4	1		60	4			21				0
16	5	6	21	2312	12	1	54	79	4		120	126	134	20	20			014		020		018	5	3	1	63	3			21	237	3		8
16	5	6	22	0409	13	1	62	70			213	213	213	84	126			006		011		035	4	1	2	77	4			21	279			8
16	5	6	22	1817	14	1	62	57			80												9	3		58	4			21				8
16	5	6	22	1953	2	1	68	45			133	133	134	14	35			062		083		055	5	3	3	62	4			21	212			0
16	5	6	22	2015	3	1	69	44	2		137	116	107	12	21			038		054		019	5	3	2	62	4			21	246			8
16	5	6	22	2042	4	1	71	43			107	107	111	26	26			015		022		027	5	1	1	58	4			21	225			0
16	5	6	22	2100	5	1	72	43			112	119	124	29	29			014		019		027	5	1	1	58	4			21	215			0
16	5	6	22	2157	15	1	56	73			94												4	1		62	3			21				0
16	5	6	22	2241	16	1	55	76			94												9	1		62	3			21				0
16	5	6	22	2311	17	1	54	80			94												4	1		60	3			21				0
16	5	6	22	2327	6	1	79	43			105	105	107	18	25			010		014		009	5	1	2	65	4			21	210			0
16	5	6	23	0001	7	1	81	43			111	119	123	24	24			017		021		025	5	1	1	67	4			21	203			0
16	5	6	23	2001	8	1	59	65			95												4	1		63	3			21				0
16	5	6	23	2015	18	1	69	44			110												4	1		56	3			21				0
16	5	6	23	2019	9	1	59	66			95												4	1		63	3			21				0
16	5	6	23	2120	19	1	72	43			98												4	1		57	3			21				0
16	5	6	23	2140	10	1	56	71			125												5	1		64	3			21				8
16	5	6	23	2150	20	1	74	43			96												4	1		58	3			21				0
16	5	6	23	2300	21	1	78	43			93												4	1		63	3			21				0
16	5	6	24	0045	11	2	53	75			181												5	1		74	3			21				0
16	5	6	24	0547	22	1	72	58			180												4	1		72	8			21				0
16	5	6	24	1751	12	1	63	53			80												4	2		54	3			21				0
16	5	6	24	1858	1	1	62	60			99												5	3		60	4			21				8
16	5	6	24	1858	13	1	61	59	4		105	105	105	15	15			016		024		017	5	3	1	60	4			21	225			
16	5	6	24	2007	1	1	69	44	4		133	134	119	31	43			013		020		024	4	1	2	57	3			21	232			0
16	5	6	24	2133	2	1	73	43			119	119	119	17	17			014		022		015	4	1	1	56	4			21	252			0
16	5	6	25	0648	3	1	70	53			180												4	7		69	3	1		21				0
16	5	6	25	1805	2	1	63	56			80												4	3		53	3			21		3		0
16	5	6	25	1833	3	1	62	58			80												4	3		55	3			21				0
16	5	6	25	1920	4	1	61	62			94												4	1		61	4			21				0

[a] Coded item.

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TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content		Nature of Icing							Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m		00.1-in/hr		0.01														
	t_Y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$l_O l_O$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
16	5	6	25	2117	5	1	56	71			94												4	1		63	4			21				0
16	5	6	25	2145	6	1	56	73			95												4	1		59	4			21				0
16	5	6	26	0157	7	1	64	51			110												4	2		57	4			21				0
16	5	6	26	1835	4	1	64	50			102	102	102	25	65			018		029		030	4	1	3	52	7			21	245			0
16	5	6	26	1949	5	1	62	59			102	100	102	20	20			042		065		055	4	1	1	55	4			21	244			0
16	5	6	26	2205	6	1	58	68			119	119	119	8	8			052		080		027	4	1	1	58	3			21	244			0
16	5	6	26	2342	7	1	56	76			93												4	1		57	4			21				0
16	5	6	27		1						196	204	213	70	95			007		011		029			2					21	248			
16	5	6	27	0026	8	1	54	79			90												4	3		56	4			21				0
16	5	6	27	0055	9	1	54	77			157	162	210	9	9			032		056		018	4	1	1	61	4			21	273			0
16	5	6	27	0537	8	1	73	59			181												3	7		65	4			21				0
16	5	6	27	1951	9	1	60	64	4		91		100										3	3		58	4			21				8
16	5	6	27	2023	10	1	70	43			119	119	119	20	28			013		019		013	4	1	2	54	4			21	240			0
16	5	6	27	2215	11	1	75	43			96												4	1		52	3			21				0
16	5	6	28	0007	10	1	53	77	4		113		130										4	1		58	4			21				0
16	5	6	28	0015	12	1	81	43	4		119	126	128	47	63			013		020		040	5	1	2	63	3			21	235			8
16	5	6	28	0106	11	1	54	76			180												4	1		70	3			21				0
16	5	6	28	0336	12	1	61	72			175												5	1		74	3			21				8
16	5	6	28	0415	13	1	76	67			182												4	1		70	3			21				0
16	5	6	28	1730	2	1	64	52			80												4	1		55	7		6	21				0
16	5	6	28	1803	3	1	63	55			91	91	91	7	7			016		022		007	4	1	1	55	7		6	21	218			0
16	5	6	28	1824	4	1	62	60			80												4	1		55	4			21				0
16	5	6	28	1849	5	1	62	62			80												4	1		58	4			21				0
16	5	6	28	1932	14	1	66	45			140	153	153	33	78			041		063		086	9	2	4	59	8	1		21	246			8
16	5	6	28	1949	6	1	59	64			92												4	1		59	4			21				0
16	5	6	28	2005	15	1	68	45			120												1	1		58	3			21				0
16	5	6	28	2022	16	1	69	45			110												1	2		57	3			21				0
16	5	6	28	2041	17	1	70	43			96												1	2		53	3			21				0
16	5	6	28	2209	18	1	75	43			95												1	2		54	3			21				0
16	5	6	28	2328	19	1	78	44			96												5	1		58	3			21				8
16	5	6	29	0033	20	1	82	43			110												6	1		65	3		6	21				0
16	5	6	29	0300	21	1	80	74			180												4	1		72	3			21				0
16	5	6	29	1825	7	1	63	57			80												5	1		54	8			21				8
16	5	6	29	1839	8	1	62	58			80												5	1		54	8			21				8
16	5	6	30	0700	1	1	69	52			180												3	1		68	3			21				0
16	5	6	30	1723	2	1	64	52			100	100	100	8	8			022		033		011	4	2	1	54	3			21	244			0
16	5	6	30	1737	3	1	64	52			80												4	2		54	3			21				
16	5	6	30	2001	9	1	68	45	4		125												4	3		53	3			21				0
16	5	6	30	2332	4	1	54	79			90												4	1		55	4			21				
16	5	7	1	0548	10	1	72	57			184												4	1		68	4			21				0
16	5	7	1	0612	11	1	71	56			183												4	1		68	3			21				0
16	5	7	1	0620	12	1	70	54			183												4	1		68	3			21				0
16	5	7	1	0650	13	1	69	52	3		196	194	201	26	61			007		012		006	4	1	4	68	3			21	261			0
16	5	7	1	0726	14	1	67	51			185												4	1		70	3			21				0
17					1						46	68	100	9	9			090		101		051			1					22	178			
17					2						107	107	112	7	7			032		044		014			1					22	220			
17					3						185	185	185	21	28			025		034		035			2					22	213			
17					3						61	28	15	17	30			046		059		050			2					22	201			
17					3						86	87	87	11	25			044		060		030			3					22	217			
17					4						184	185	185	16	52			007		010		006			2					22	240			
17					4						49	49	110	3	3			104		120		020			1					22	182			
17					5						226	221	177	13	13			013		022		011			1					22	265			
17					5						83	84	173	11	22			012		017		008			2					22	219			
17					5						162	150	150	46	96			040		056		095			6					22	231			
17	3	3	17	2245	8	1	40	96			140												4	1		60	4			22				2
17	3	3	18		2	1	45	95			100												3	1			9	1		22				0
17					6						90	95	77	70	120			027		040		120			3					22	232			
17					6						49	46	39	6	6			025		030		010			1					22	189			
17					6						112	105	62	7	7			044		058		019			1					22	207			
17					6						142	142	142	19	19			052		075		063			1					22	229			
17					7						115	112	112	32	67			024		030		045			2					22	190			
17					8						109	105	105	19	38			010		014		012			2					22	225			
17					8						134	133	133	20	20			022		033		028			1					22	234			
17					8						138	140	138	30	72			040		058		082			5					22	227			
17					9						54	60	34	6	6			010		010		004			1					22	175			
17					9						105	105	109	143	151			026		035		234								22	215			
17					9						110	110	115	6	6			050		057		019			1					22	179			
17					10						123	114	110	63	73			053		066		210			2					22	199			
17					10						114	112	110	14	41			060		078		053			3					22	204			
17					11						157	159	160	11	22			025		034		011								22	217			
17					13						154	154	154	4	4			047		070		012			1					22	233			
17				1135	1	1	46	97			206	206	206	32	40			020		030		040	4	1		78	4			22	240			8
17				1325	2	1	47	96			204	204	204	23	27			013		019		019	4	1		78	4			22	234			8
17	3	1	9	0800	2	1	44	03			171												3			66				22				0

[a] Coded item.

TABLE II - CONTINUED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude			Flight Distance				Liquid Water Content		Nature of Icing						Meteorological Conditions					Aircraft				
											100-ft							0.01-g/cu m		00.1-in/hr			0.01												
	t_y	t_m	t_d	$t_t t_t t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_c D_c D_c$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_L I_L I_L$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_t A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
17	3	1	10	0050	3	1	44	03			15												3			08	4			22				0
17	3	2	1	0130	4	1	44	99			193												5	1		73	6			22				2
17	3	2	1	0915	1	1	44	99			110												4	1		56	6			22				2
17	3	2	1	0948	2	1	43	96			115												9	1		57	6			22				2
17	3	2	1	1035	3	1	43	92			113												5	1		57	6			22				2
17	3	2	28	0215	1	1	42	00			69												4	1		53	6			22				0
17	3	2	28	0445	2	1	44	03			42												4	1			6			22				0
17	3	3	5		1						53	31	22	22	44			022		024		029			2					22	165			
17	3	3	5	0820	3	1	43	03			122	122	122	10	10			018		023		012	4	1	1	70	3			22	200			0
17	3	3	14	0540	1	0	38	27	2		100												5	2		54	8			22				4
17	3	3	14	0730	4	0	38	27			91												4	1		62	3			22				3
17	3	3	14	0835	3	0	38	27	2		70	60	50										4	2		54	7			22				0
17	3	3	14	2058	2	0	43	85			191												4	1		69	4			22				0
17	3	3	17	0935	4	0	42	43			22												4	1		56	7			22				2
17	3	3	17	0935	5						22												4	1		56	7			22				2
17	3	3	17	1102	6	0	45	51			23												4	1		56	7			22				2
17	3	3	17	1129	7	0	45	52			20												4	1		56	7			22				2
17	3	3	18		3	1	45	94			100												3	1			9			22				0
17	3	3	18		4	1	45	93			100												3	1			9			22				0
17	3	3	18		5	1	44	93			100												3	1			9			22				0
17	3	3	18	1150	7	0	44	63			40												4	1		54	7			22				3
17	3	3	18	1830	8	0	40	81			104												4	1			3	8		22				3
17	3	3	18	1837	9	0	40	81			104												4	1			3	8		22				3
17	3	3	18	1855	10	0	40	82			100												4	1		02	3	8		22				3
17	3	3	18	2008	11	0	40	86			96												4	1		51	3			22				3
17	3	3	18	2026	12	0	40	86			105												4	1		51	3			22				3
17	3	3	18	2214	13	1	39	91			101												4	1		56	8			22				3
17	3	3	20	1104	2	0	45	46			23												4	1		01	6			22				3
17	3	3	20	1310	3	0	45	52			51												4	1		56	6			22				3
17	3	3	20	1428	4	0	45	55			50												4	1		54	6			22				3
17	3	4	11	1124	2	1	35	97			200												4	1		85	9			22				4
17	3	5	1	1102	3	3	47	03						28		207	7	011	018	016	027	028	5	1		56				22	239			3
17	3	5	1	1210	4	3	48	02								105				001			4	1		56				22				3
17	3	5	1	1245	5	3	51	00						23		100	6	030	078	045	120	045	4	1		56				22	228			3
17	3	5	1	1303	6	3	52	01								100				001			4	1		54				22				3
17	3	5	7	1300	14	0	40	89			156	156	156	7	7			027		038		013	4	1	1	64	4			22	220			3
17	3	6	5	2319	1	1	43	03			175												5	1		64	3			22				8
17	3	6	7	0045	13	0	54	35								400							5	1		53				22				3
17	3	6	8	0045	15	0	54	35						182		605	56	023	073	027	085	263	5	1		53				22	195			3
17	3	6	8	0635	16	0	56	61								400				001			4	2		56				22				3
17	3	6	9		3						166	166	166	27	31			040		058		070			2					22	231			
17	3	6	9		5						221	221	221	29	37			019		030		030								22	247			
17	3	6	17	0032	3	1	42	06			250												4	1		80	8			22				0
17	3	7	14	0045	1	1	32	03			161												4	1			9			22				4
17	3	7	14	0130	2	1	32	06			160												3	1		51	8			22				0
17	3	8	14	0425	2	1	32	02	9		156												4	1		52	4			22				0
17	3	8	14	0620	3	1	32	09	9		158												4	1		53	5			22				0
17	3	8	16	1500	3	1	39	18			260												4	2		82	3			22				0
17	3	8	16	1515	4	1	40	17			258												4	2		81	3			22				0
17	3	8	28	0815	4	1	41	03			206												4	1		64	9			22				0
17	3	9	9	0940	7	1	36	98			202												5	1		67	9			22				4
17	3	9	9	0708	5	1	44	02			202												5	1		62	9			22				
17	3	9	9	0649	4	1	43	02			197	197	197	4	4			015		024		004	5	1	1	62	9			22	249			4
17	3	9	9	0903	6	1	38	00			197	196	192	13	13			012		019		010	4	1	1	65	9			22	250			4
17	3	9	9	1252	8	1	39	98			199												4	1		67	9			22				
17	3	9	27	0119	2	1	54	57	7		97	97	97	34	34			043		055		009	4	1	1	63	9			22	201			8
17	3	9	27	0135	3	1	54	55	7		102	98	100	28	56			042		057		077	5	1		63	9			22	211			8
17	3	9	27	0400	4	1	53	41			155												4	1		64	3			22				8
17	3	9	27	0939	5	1	55	11			85	64	36	31	70			015		019		030	4	1	5	57	4			22	209			0
17	3	10	2	0447	7						153												4	1		58	3			22				0
17	3	10	15	1115	9						172												4	1		62	3			22				0
17	3	10	15	1130	10						170												4	1		62	3			22				0
17	3	10	15	1404	11						116	116	116	4	4			046		063		011	4	1	1	61	3			22	216			8
17	3	11	3	0837	2	1	44	03			166	166	166	28	71			013		019		022	5	1	4	65	4			22	237			3
17	3	11	3	0935	3	1	41	07			163	163	163	8	8			009		013		005	4	1	1	63	4			22	237			3
17	3	11	3	1042	4	1	40	10			160												5	1		62	4			22				3
17	3	11	3	1155	5	1	37	14			165	165	165	98	169			024		035		142	4	1	6	58	4			22	236			3
17	3	11	5	0630	4	1	44	05			250												4	1		84	3			22				2
17	3	11	5	0800	5	1	36	97			160												4	1		66	3			22				2
17	3	11	5	1600	1	1	41	97			260	256	256	53	83			021		035		065	4	1	2	69	4			22	263			8
17	3	11	5	1630	1	1	44	03			159												4	1		62	4			22				2
17	3	11	5	1630	5	1	44	03			159												4	1		62	4			22				2
17	3	11	5	1745	2						101	92	70	16	16			043		067		045	4	1	1	52	6			22	245			8
17	3	11	5	1830	2	1	43	10			162												4	1		66	3			22				2
17	3	11	5	1830	6	1	43	10			162												4	1		66	3			22				2

[a] Coded item.

TABLE II - CONCLUDED. TABULATION OF ICING CLOUD DATA.

See Appendix C for interpretation of heading and code.

Organization (a)	Date and Time					Location					Pressure Altitude	Flight Distance				Liquid Water Content	Nature of Icing					Meteorological Conditions				Aircraft				
											100-ft					0.01-g/cu m	00.1-in/hr		0.01											
	t_y	t_m	t_d	$t_G t_G t_g t_g$	N	O (a)	$L_a L_a$	$L_o L_o$	L (a)	FFFFF	$Z_1 Z_1 Z_1$	$Z_2 Z_2 Z_2$	$Z_3 Z_3 Z_3$	DDD (mi)	$D_e D_e D_e$ (mi)	$t_e t_e t_e$ (min)	$t_i t_i t_i$ (min)	$W_a W_a W_a$	$W_m W_m W_m$	$R_a R_a R_a$	$R_m R_m R_m$	$I_t I_t I_t$ (in)	I_s (a)	I_d (a)	I_n	T T	C (a)	B (a)	S S (a)	$A_L A_t$ (a)	V V V (mph)	V_e (a)	A (a)	A_d (a)
17	3	11	5	1930	3	1	42	14			163												4	1		66	3			22				2
17	3	11	5	1930	7	1	42	14			163												4	1		66	3			22				2
17	3	11	6	0630	8	1	44	05			250												4	1		84	3			22				2
17	3	11	6	0800	9	1	37	97			160												4	1		66	3			22				2
17	3	11	28	0825	8	1	44	02			148												4	1		02	5			22				8
17	3	11	28	0825	12	1	44	02			148												4	1		02	5			22				8
17	3	12	1	2004	3	1	43	02			200												3	1		69	4			22				0
17	3	12	1	2030	4	1	44	02			200												3	1		74	4			22				0
17	3	12	12	2141	2	0	38	89			107												4	1		67	4			22				8
17	3	12	14	0620	3	1	35	96			156												4	1		64	3			22				8
17	3	12	14	1000	4	1	40	99			114												4	1		63	3			22				8
17	3	12	14	1715	1	1	40	91			102												4	1		66	7			22				8
17	3	12	14	1745	2	0	40	89			102												5	1		66	7			22				8
17	3	12	16	0940	2	1	37	90	4		95												4			63	3			22				8
17	3	12	16	1120	3	1	34	97			93												5			54	3			22				8
17	3	12	16	1432	13	1	36	94			95												4	1		58	3			22				3
17	3	12	16	1445	14	1	36	94			95												4	1		58	3			22				3
17	3	12	17	1432	16	1	36	94			95												4	1		58	3			22				3
17	3	12	17	1445	17	1	35	94			95												4	1		58	3			22				3
17	3	12	17	1458	15	1	35	94			97												5	3		57	3			22		8	7	3
17	3	12	17	1458	18	1	35	94			97												5	3		57	3			22		8	7	3
17	3	12	29		3						71	80	168	6	6			060		073		024			1					22	191			
17	4	1	7	0130	7	1	44	94			199												4	1		74	4			22				0
17	4	1	7	2110	5	1	48	03			158												4	1		62	3			22				0
17	4	1	7	2128	6	1	47	02			161												4	1		64	3			22				0
17	4	1	8	0320	4	1	37	99			241												4	1		80	2	1		22				8
17	4	1	14	1850	8	1	38	94			249												4	1		81	0			22				3
17	4	1	30	0320	10	1	44	03	5		166												4	1		69	3			22				2
17	4	1	30	0430	11	1	44	03	5		160												4	1		59	3			22				2
17	4	1	30	1057	6	1	40	98			170												4	1		70	8			22				0
17	4	2	1		4																									22				
17	4	2	1	0018	3	1	40	03			116												4	1		60	4			22				0
17	4	2	1	2331	2	1	40	03			135												4	1		62	4			22				0
17	4	2	10	0145	6	1	44	03			87	45	29	27	50			029		036		048	4	1	2	59	6			22	178			4
17	4	3	15	0429	4	1	33	11	3		163												4	1		65	3			22				8
17	4	3	15	0450	5	1	32	08	3		162												4	1		65	4			22			0	3
17	4	3	15	0611	6	1	34	12	1		164												4	1		66	3			22				3
17	4	3	16	0540	1	1	32	06			164												4	1		62	4			22				0
17	4	3	16	0655	2	1	33	11			160												4	1		62	4			22				
17	4	3	16	0720	3	1	33	11			163												4	1		62	4			22				
17	4	3	21	1045	6	1	44	03			66												4	1		53	7			22				8
17	4	3	27	1910	2	1	29	95			269												4			76	8			22				0
17	4	3	27	1922	3	1	30	95			270												4			76	8			22				0
17	4	4	9	0018	11	1	29	98			256												4	1		77	9			22				8
17	4	4	9	0049	12	1	29	97			255												4	1		76	9			22				8
17	4	4	9	0113	13	1	29	96			256												4	1		76	9			22				8
17	4	4	9	0148	14	1	30	94			258												4	1		77	9			22				8
17	4	7	21		1	1	42	02			250												4	1		70	9			22				0
17	4	7	21	0100	2	1	43	02			250												4	1		70	9			22				2
17	4	7	21	0105	3	1	43	02			250												4	1		70	9			22				2
17	4	7	21	0120	4	1	43	02			250												4	1		70	9			22				2
23	4	2	6	1958	2	1	50	98		80106	130		35										2			52	7			6				1
23	4	3	23	2324	1	1	53	12		00523	80												5	1		64				6				9
23	4	3	26	1445	2	1	49	21		00925	100												4	1		62				6				0
23	4	4	2	0052	7					80102	140												9			63				6				8
23	4	4	2	0205	8	1	49	23	2	80102													9			69				6				8
23	4	4	2	0504	5	1	49	23		80802	60		100										4							6				8
23	4	4	2	0757	6	1	51	14		80803	47		60										4			60				6				8
23	4	4	2	1330	3	0	44	80		80102	60												2			66				6				0
23	4	4	2	1430	4	0	46	85		80102	60												2			66				6				0
23	4	4	3	0135	9	1	52	05		80703	40												4			56				6				1
23	4	4	3	0240	10	1	52	07		80703	40												4			56				6				1
23	4	4	3	0455	11	1	53	13		80703	110		130										4			65				6				1

* Coded item.

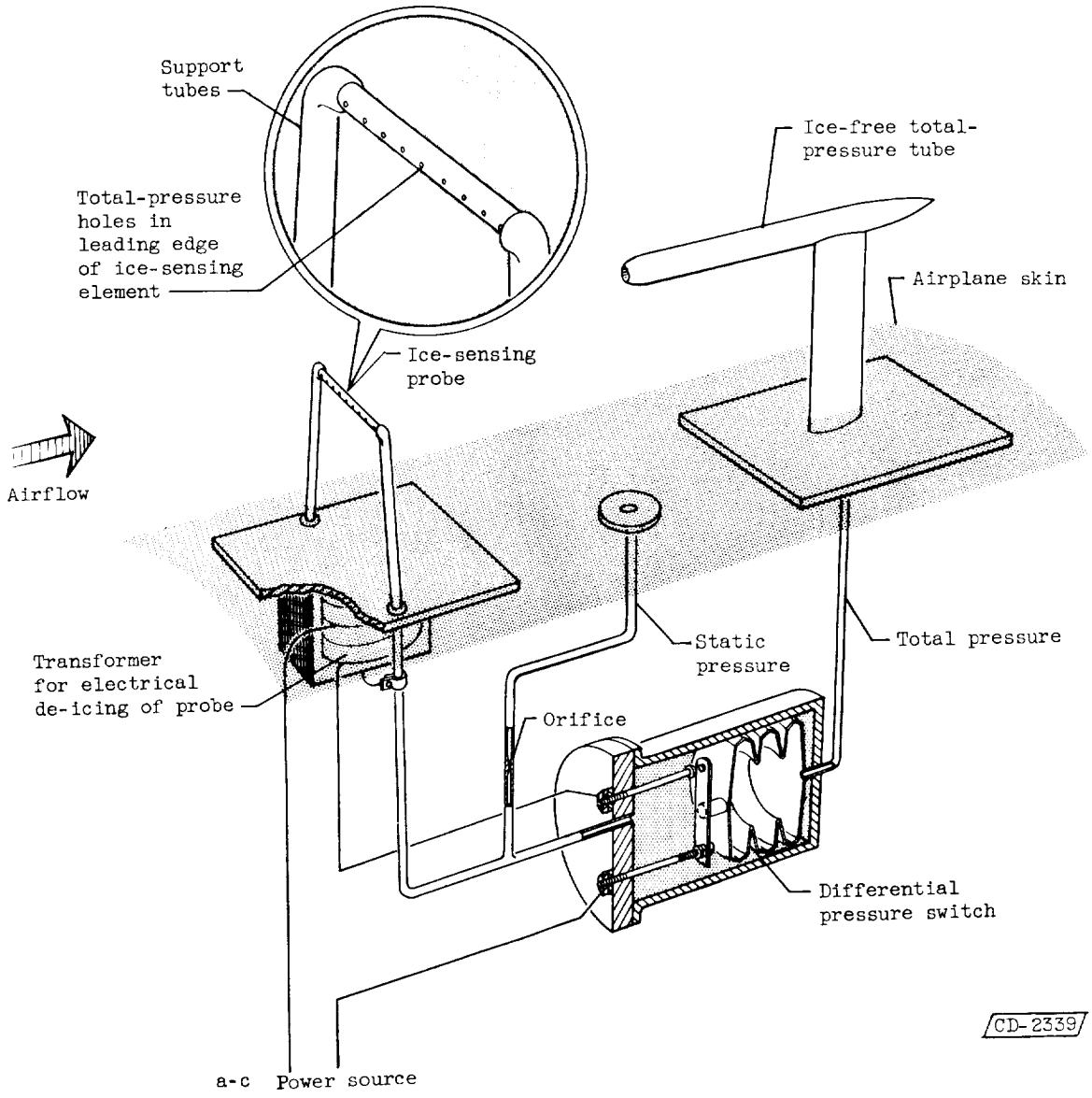

Figure 1. - Schematic drawing of NACA pressure-type icing-rate meter.

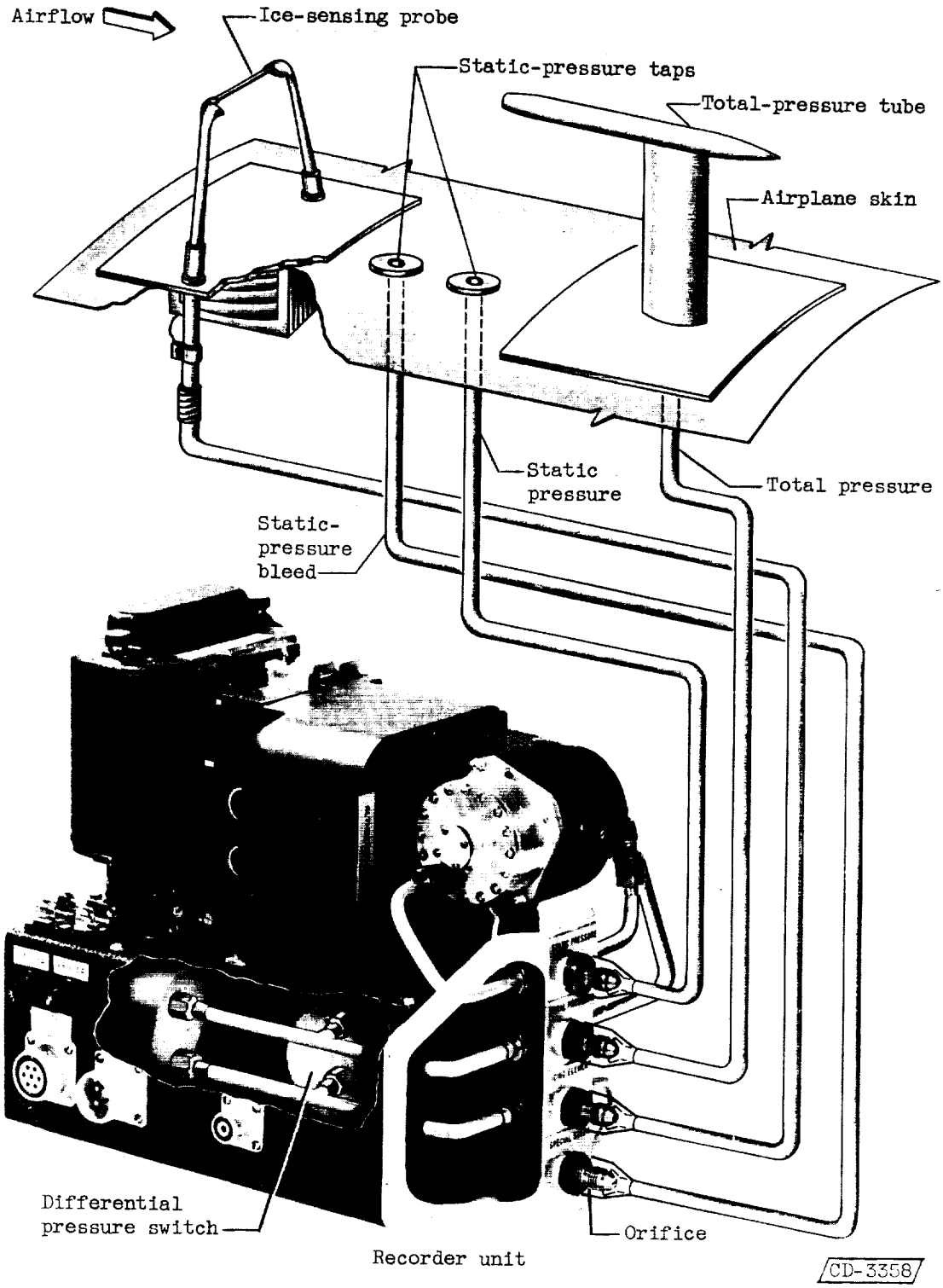

Figure 2. - Installation of NACA pressure-type icing-rate meter.

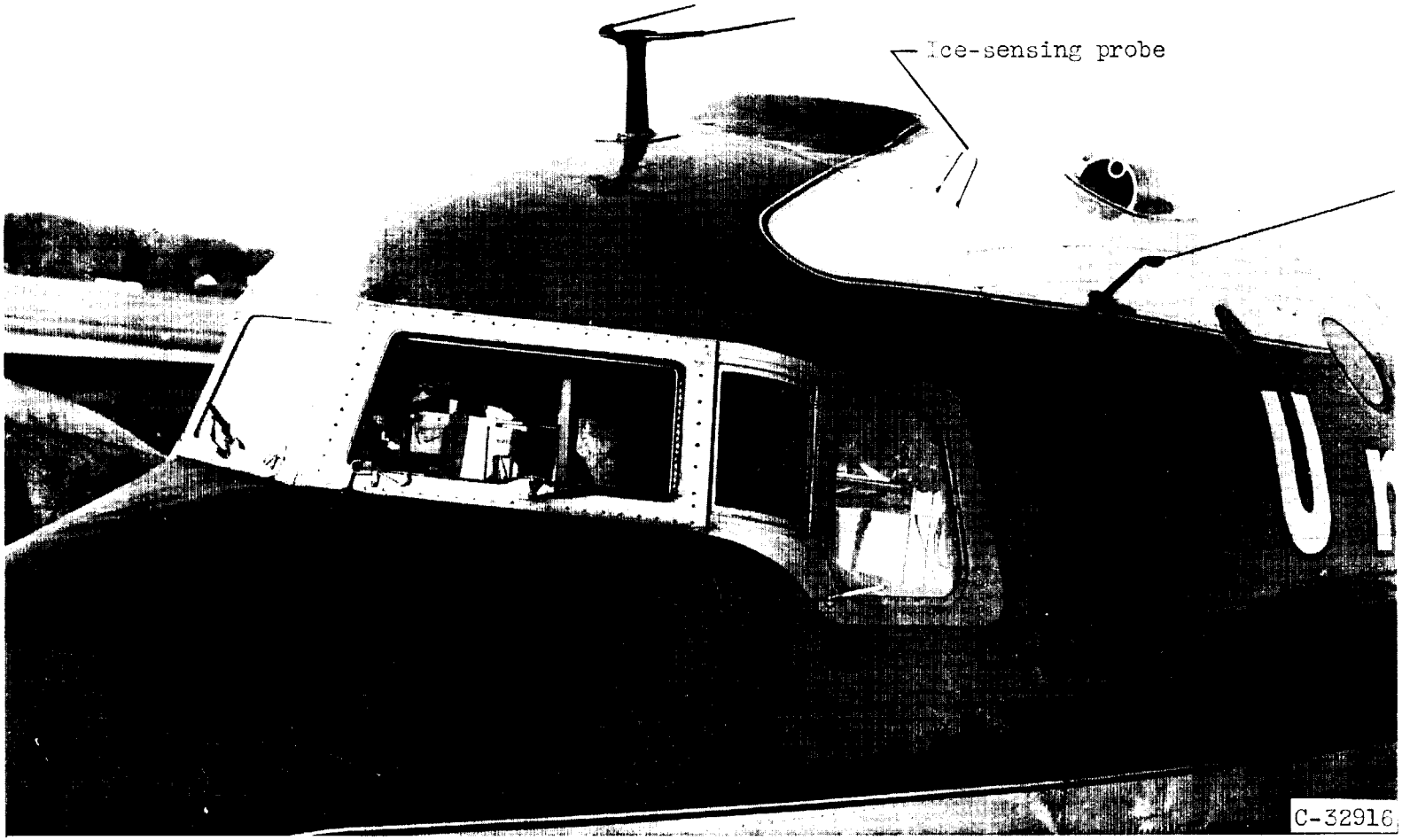

Figure 3. - Ice-sensing probe of NACA pressure-type icing-rate meter mounted on DC-4 aircraft.

NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS
Lewis Flight Propulsion Laboratory

21000 Brookpark Rd.
Cleveland 11, Ohio

Recorder Counter No. at Installation: _____
at Removal: _____

Data Sheet No. _____
Film Drum No. _____
Airline _____
Icing Meter No. _____
Airplane No. _____

ICING DATA SHEET FOR STATISTICAL STUDY OF AIRCRAFT ICING

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Please Note. These data supplement measurements of rate of icing being recorded on film by NACA icing rate meter installed on this aircraft. Meter automatically starts upon encountering icing (recording light) and stops approximately 10 minutes after end of icing rate cycle (flashing light). Numerical recorder counter identifies icing encounters on recorder film and therefore must be entered on this sheet to correlate these data with the film records.

Fill in following information when icing is encountered:
(Space on back for any detailed comments such as operation of meter, type of ice, cloud formations, effects on aircraft, etc.)

REC. ORDER COUNTER NO.	DATE	FLIGHT NO.	TIME AT START OF ICING (LOCAL)	EST'D TIME IN ICING (MIN)	ALT. MSL (FEET)	OUTSIDE AIR TEMP. °F OR °C	EST'D ICING INTENSITY	DE-ICING EQUIP. USED?	GEOGRAPHIC LOCATION OF ICING

c. 818 (6/9/52)

Figure 4. - Log sheet used with icing meter in statistical icing-cloud data program.

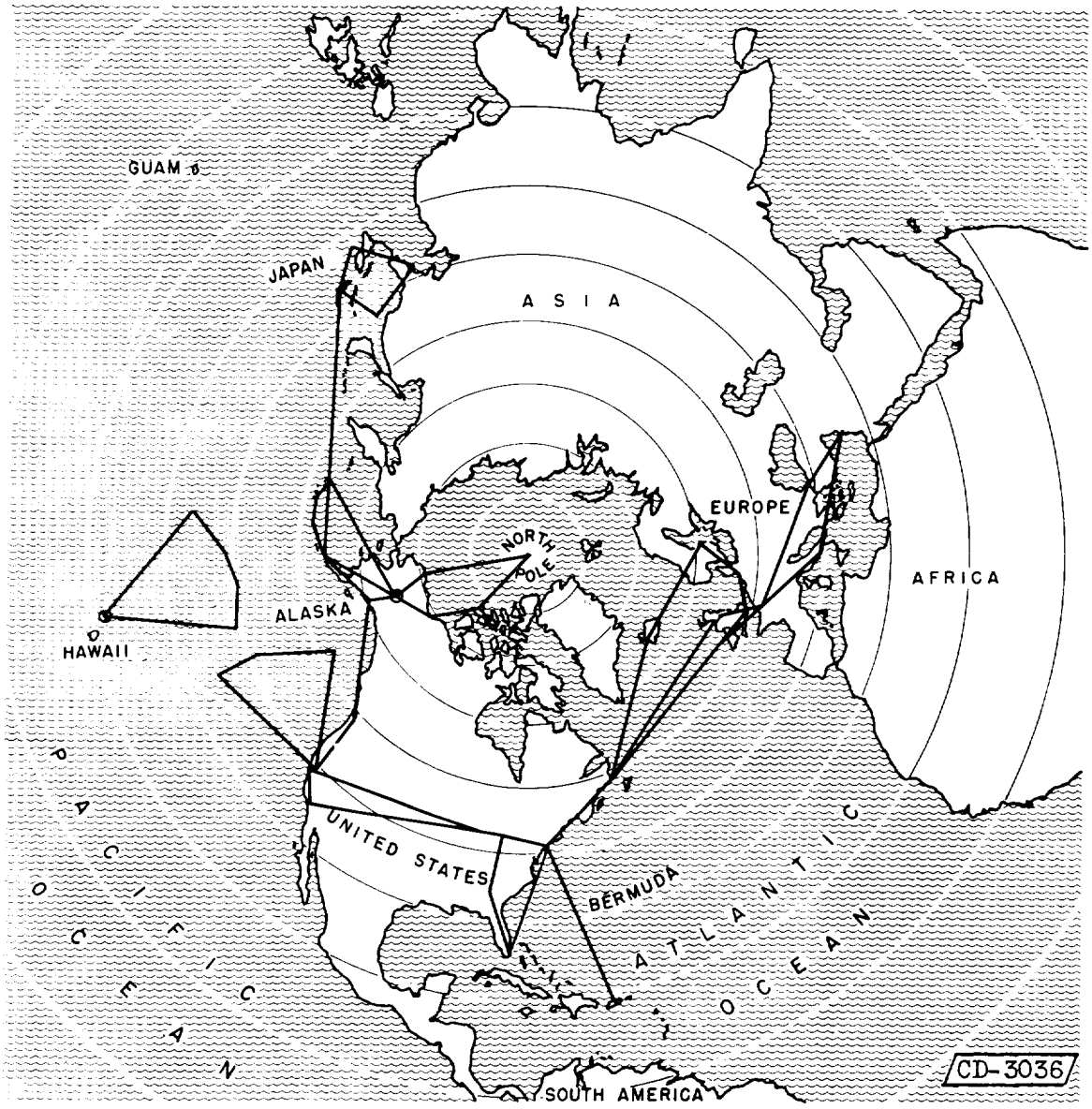

Figure 5. - Air routes and areas covered in icing-cloud data program.

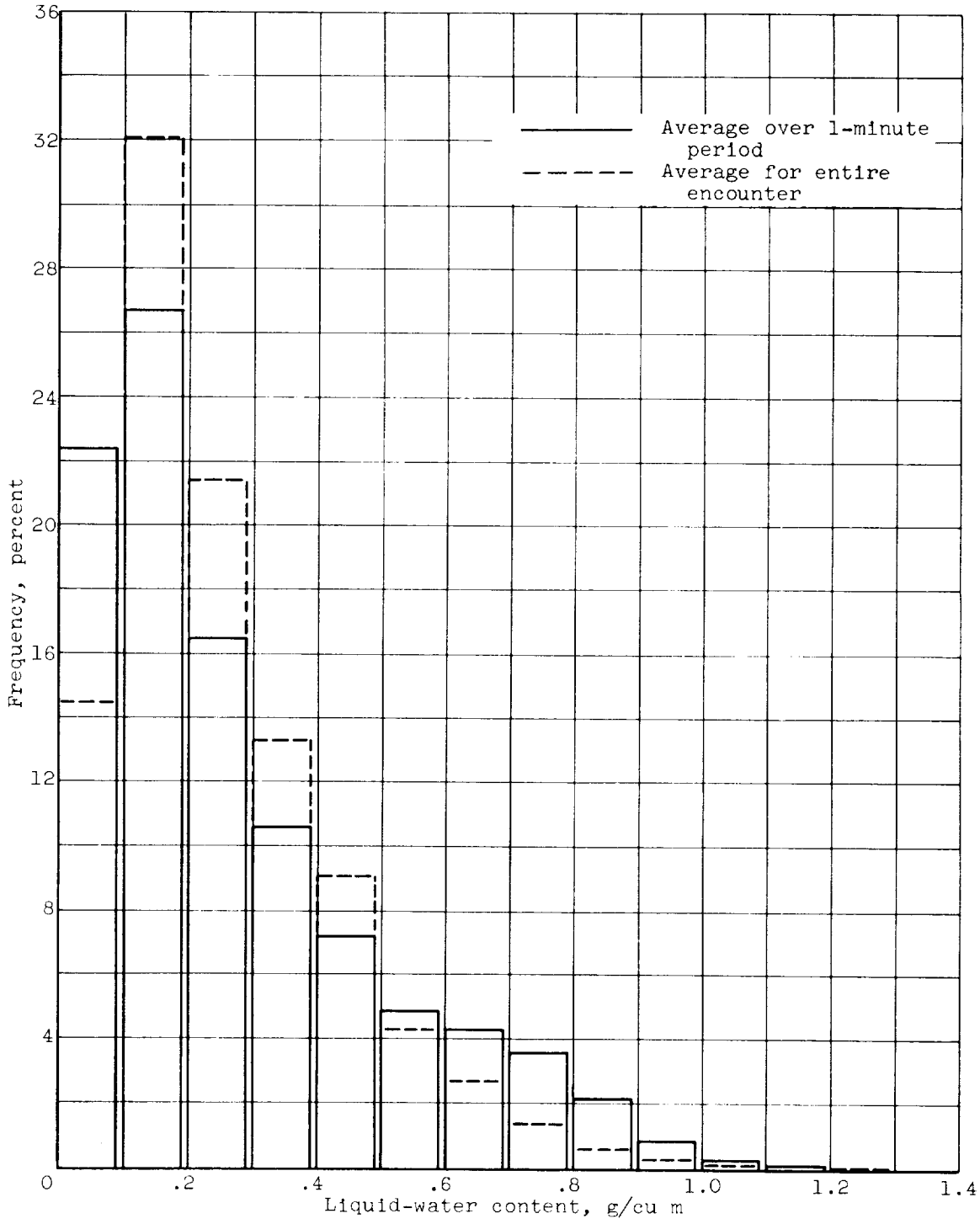

Figure 6. - Comparison of frequency distributions of liquid-water content averaged over 1-minute periods and over entire encounter.

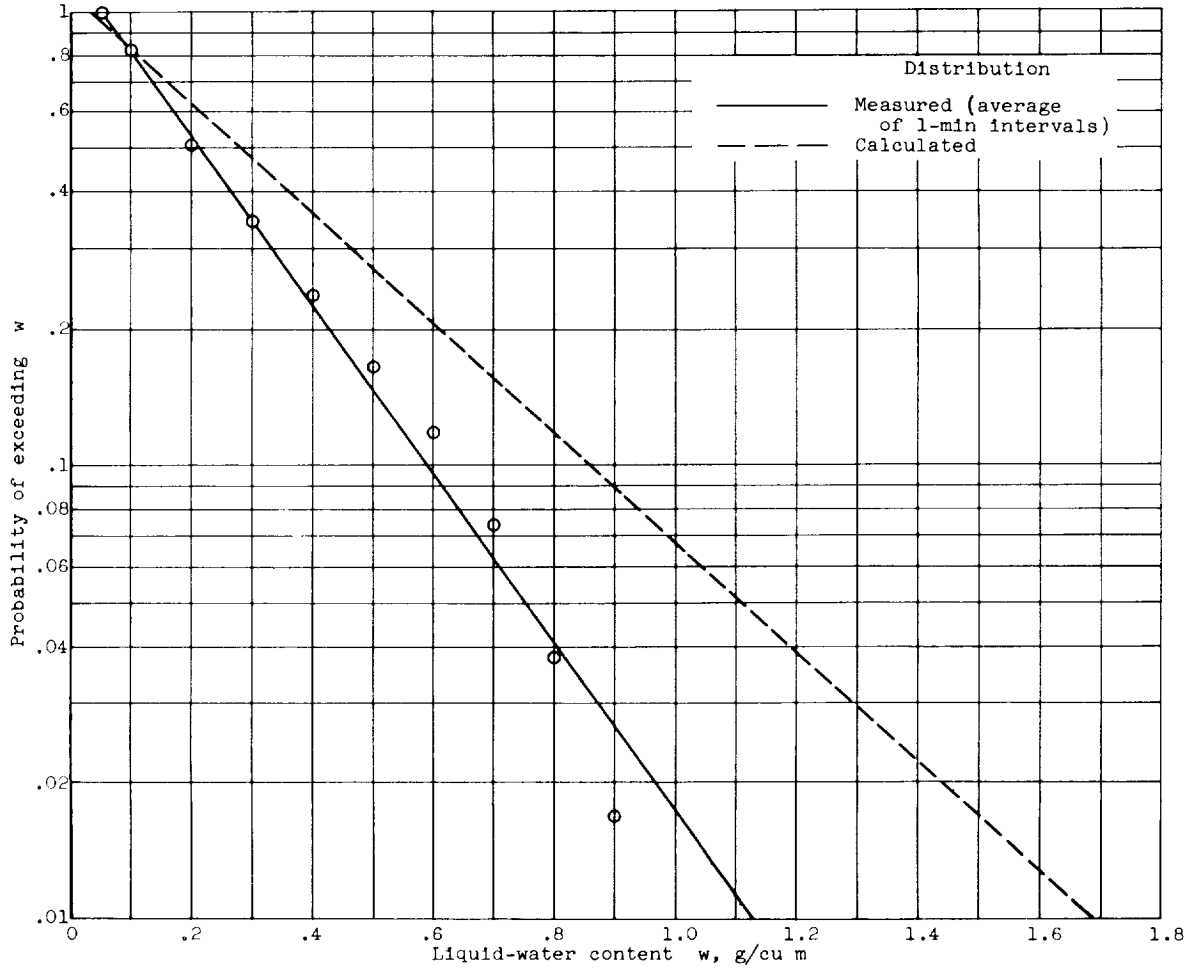

Figure 7. - Cumulative frequency distributions of measured and calculated liquid-water contents in icing clouds.

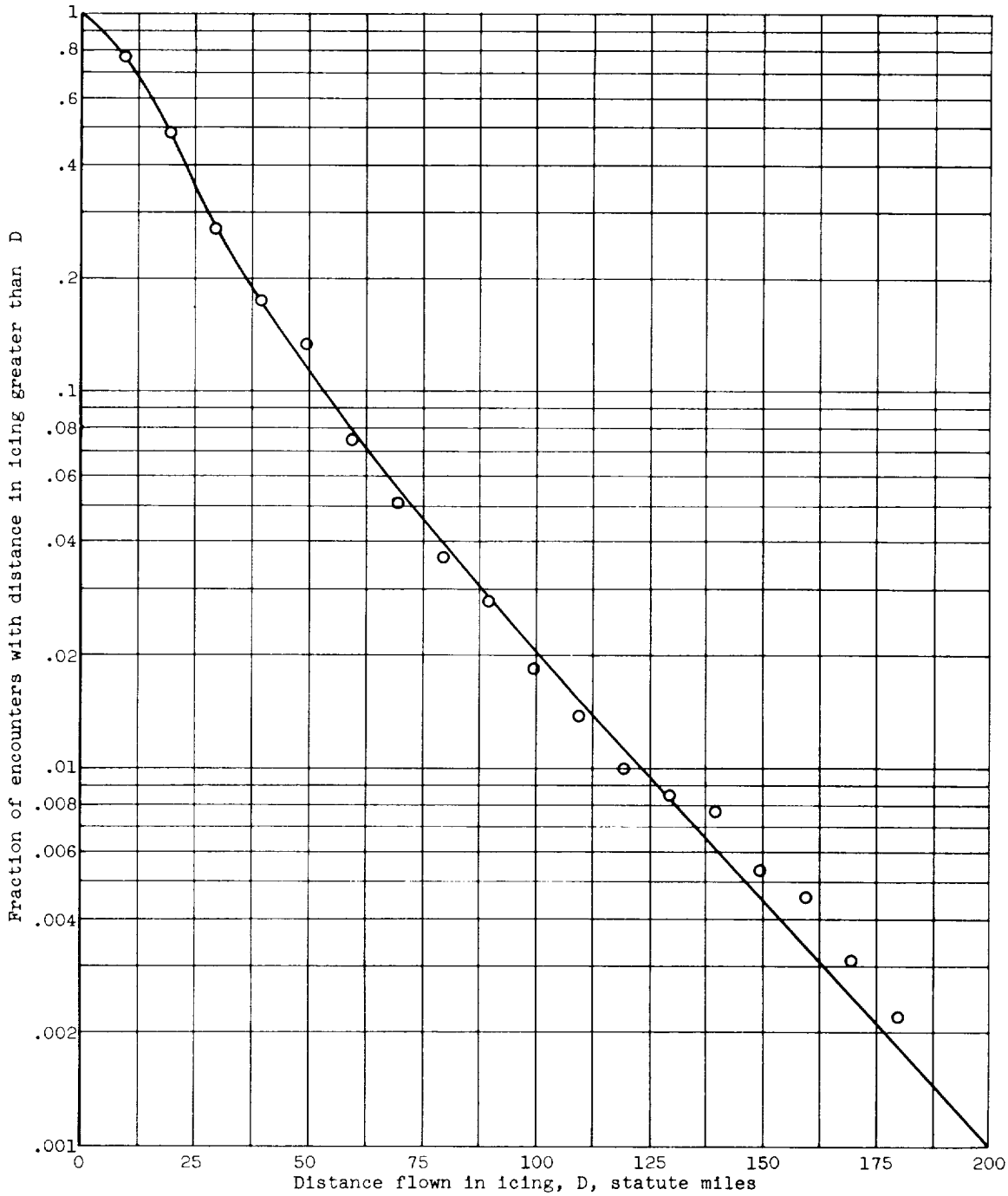

Figure 8. - Cumulative frequency distribution of distance flown in icing during an encounter.

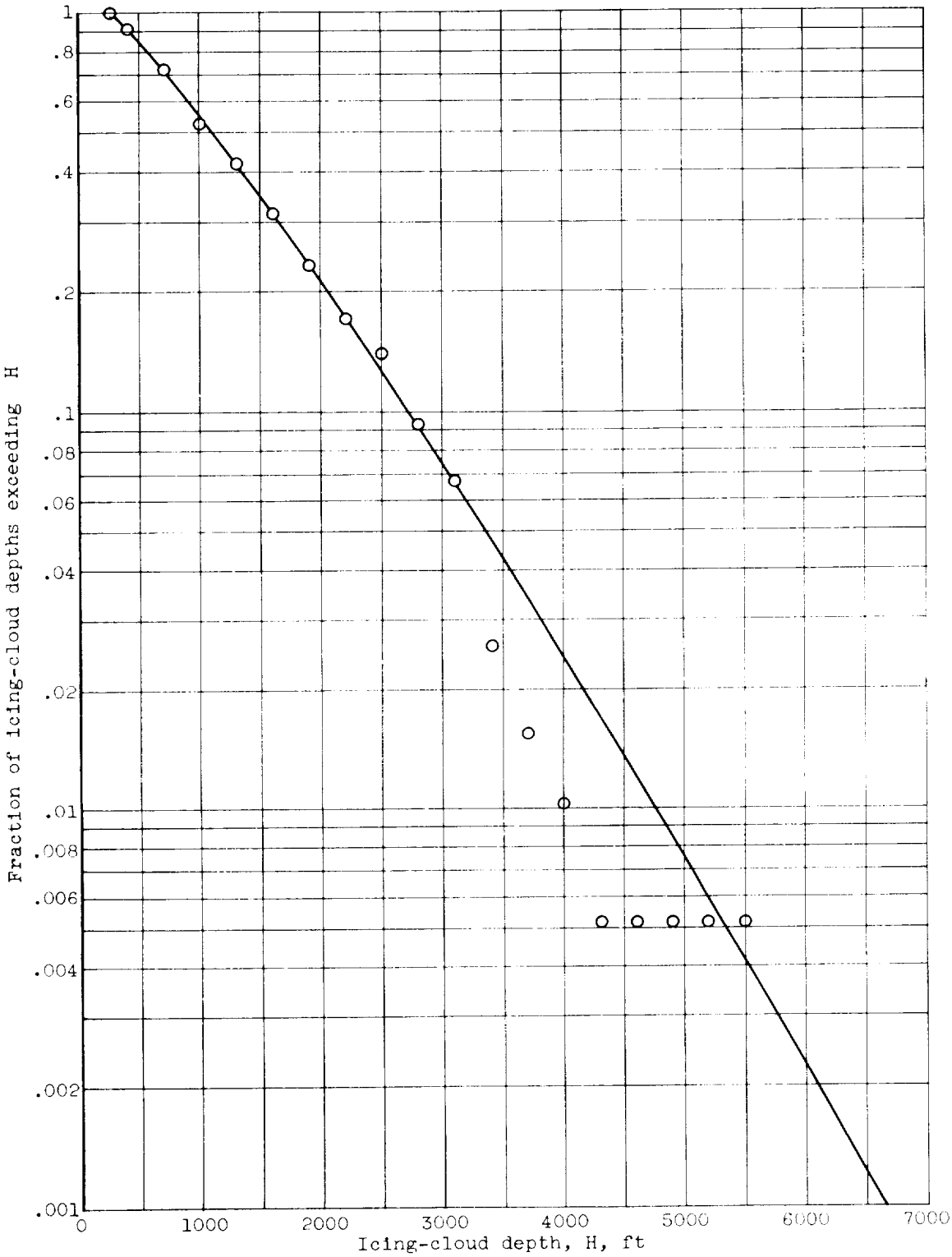

Figure 9. - Cumulative frequency distribution of depth of icing-cloud layer.

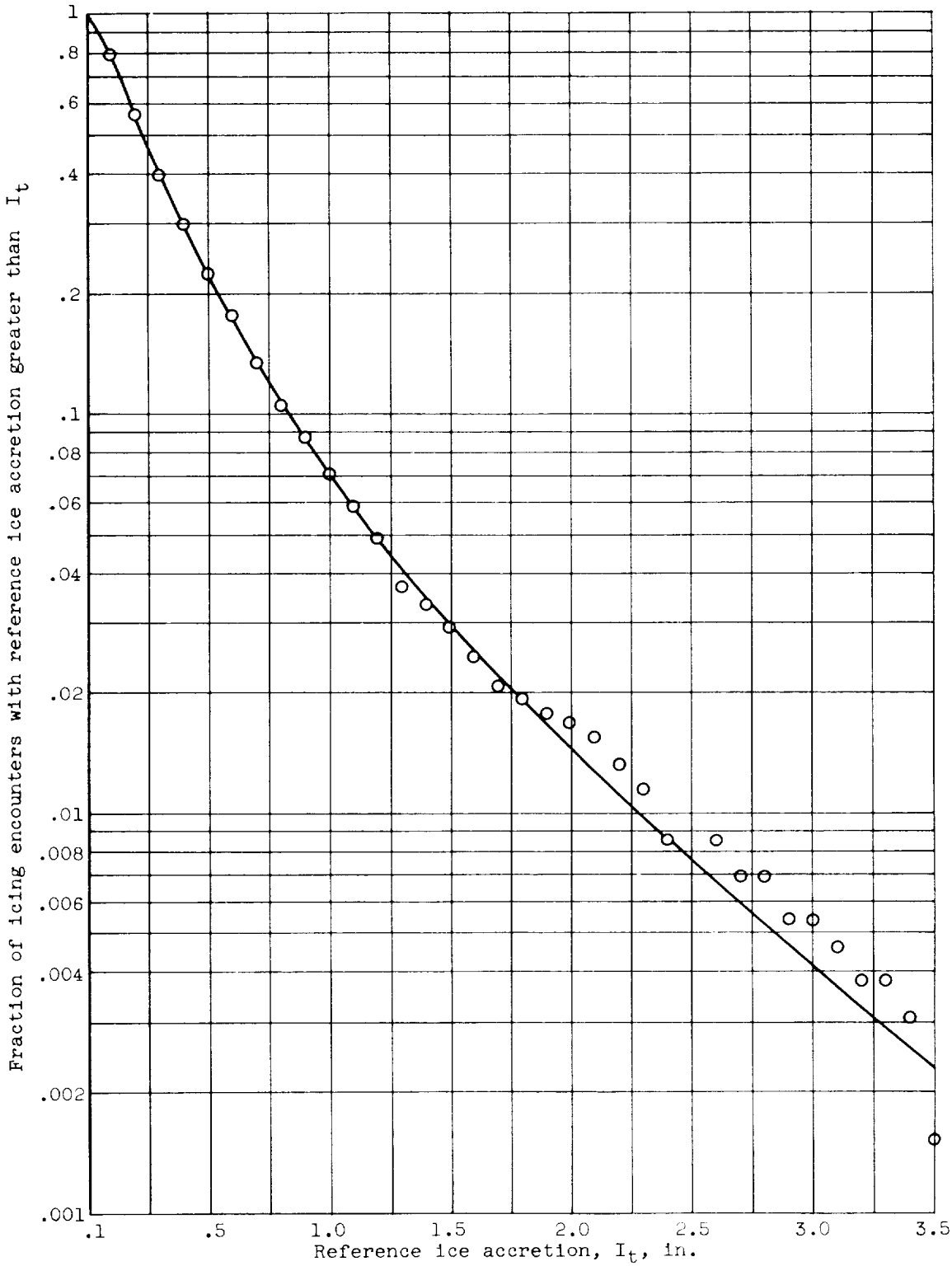

Figure 10. - Cumulative frequency distribution of reference ice accretion collected on ice-sensing probe during an icing encounter.

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CG-11 back

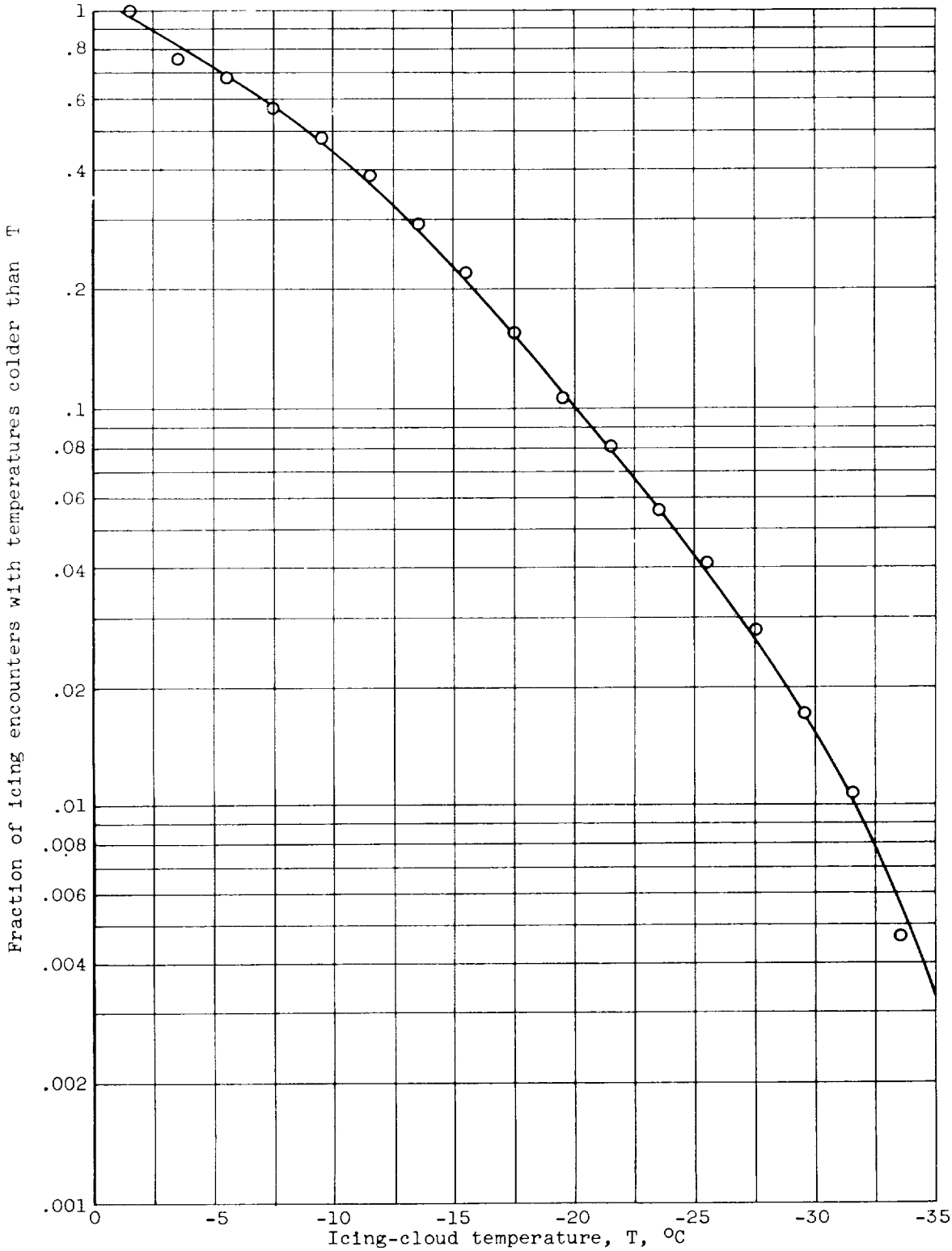

Figure 11. - Cumulative frequency distribution of temperature of icing clouds.

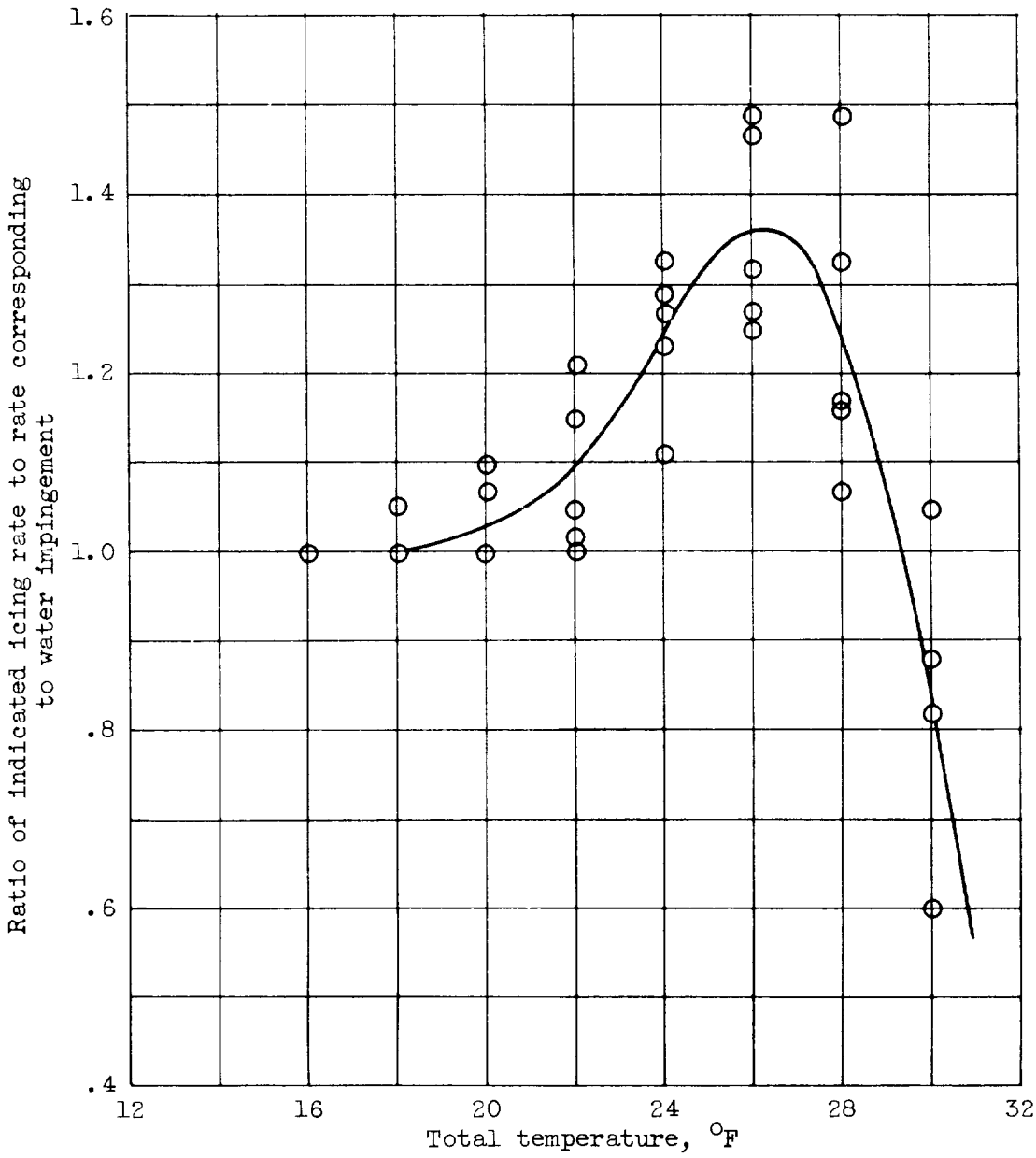

Figure 12. - Effect of runoff condition on icing rate indicated by sensing probe as air temperature approaches freezing point.

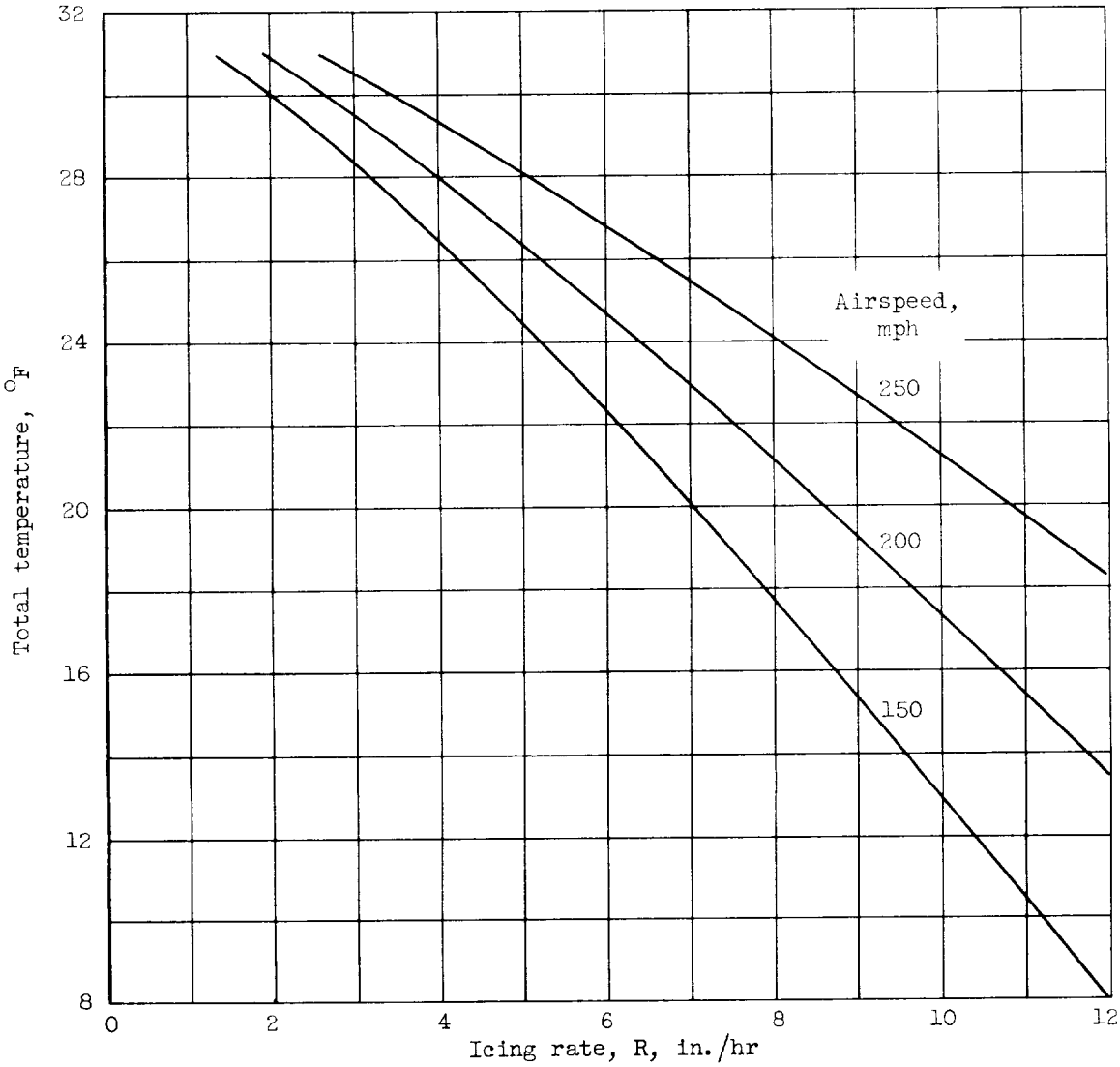

Figure 13. - Conditions at which runoff begins to affect ice-sensing probe.

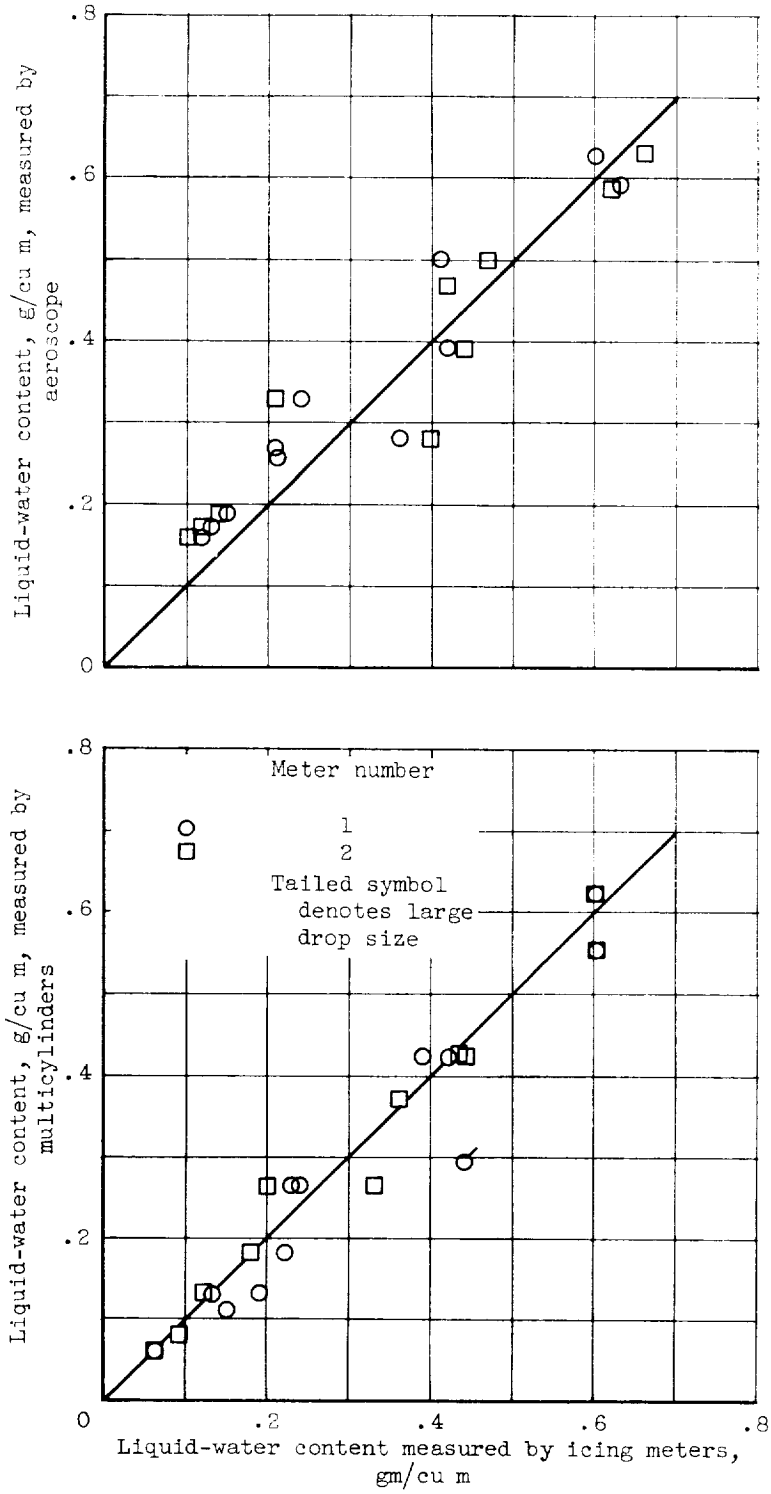

Figure 14. - In-flight comparison of icing-rate meter with aeroscope and multicylinder method of measuring liquid-water content.

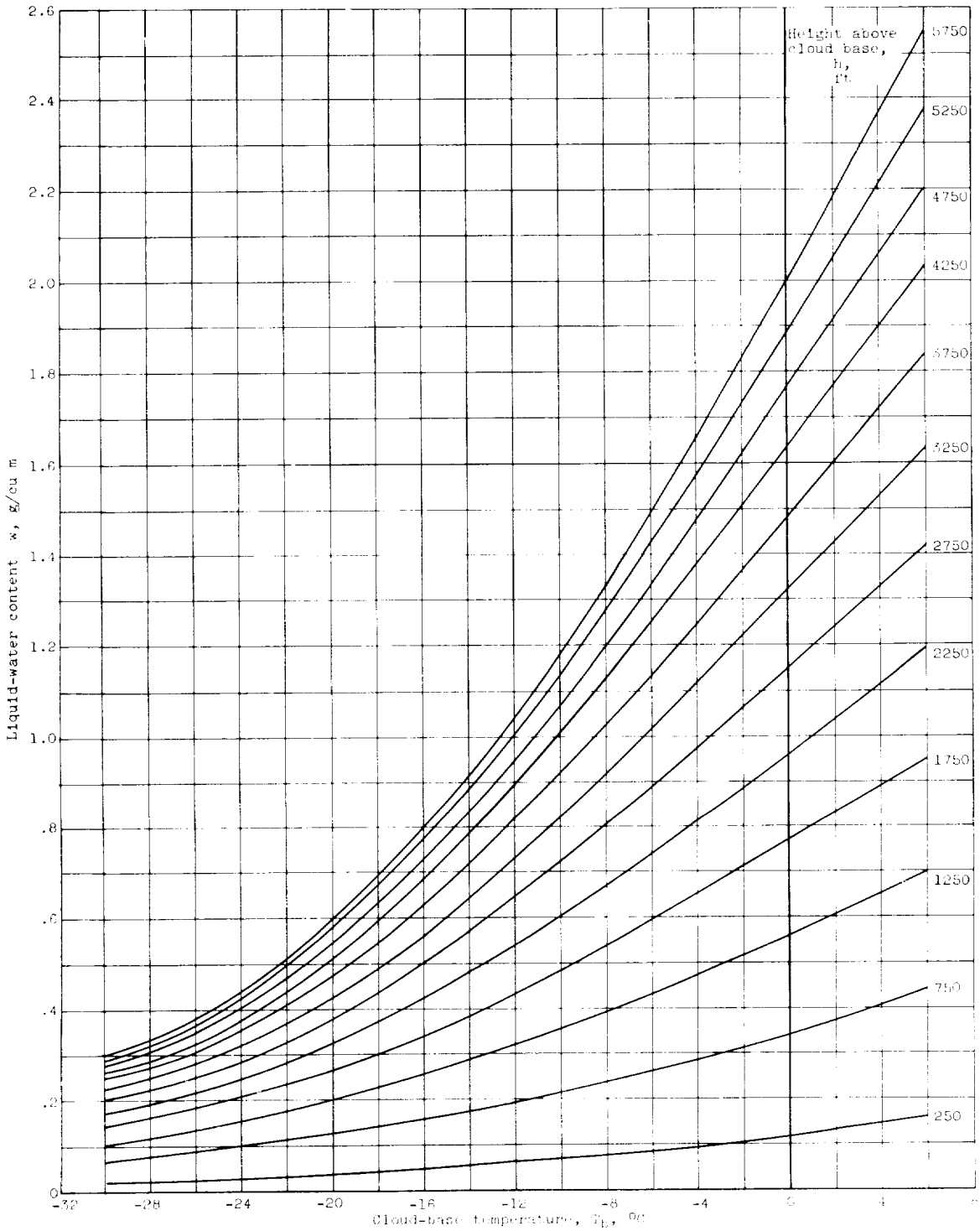

Figure 15. - Liquid-water concentration of adiabatically lifted saturated air as function of cloud-base temperature and height above cloud base.

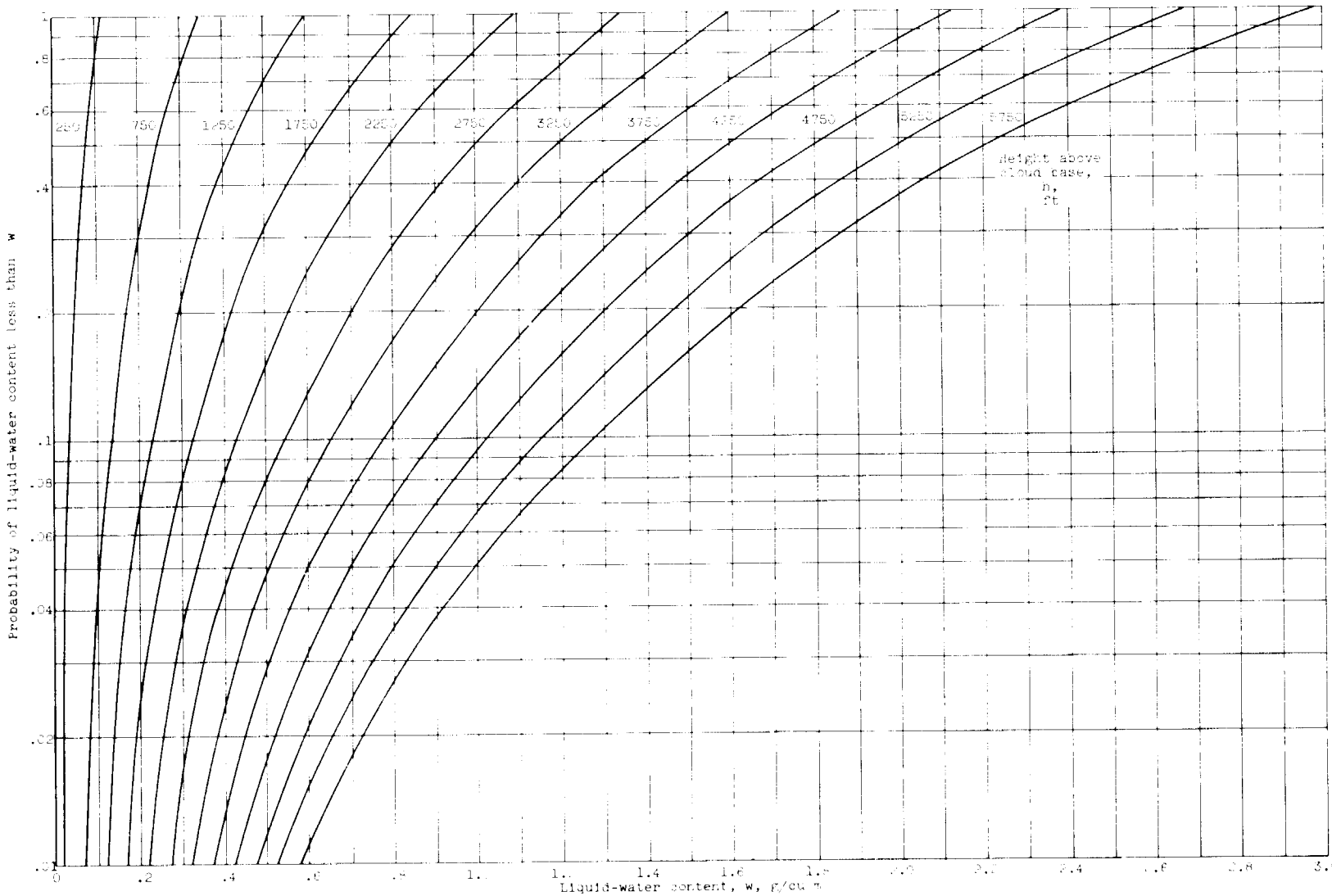

Figure 16. - Cumulative probability distributions of liquid-water content based on distribution of temperatures of figure 11 for various heights above cloud base.

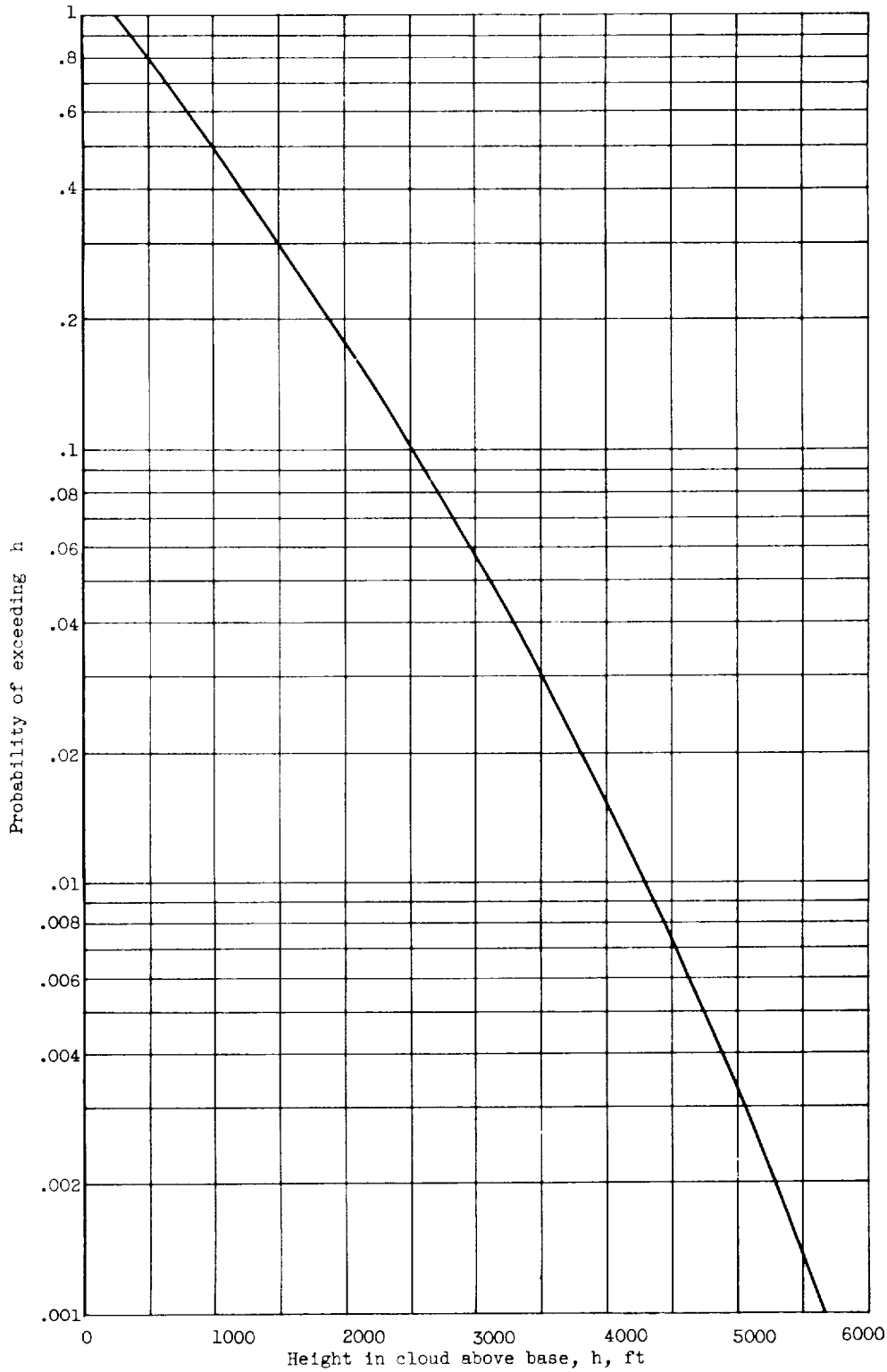

Figure 17. - Cumulative probability distribution of height above cloud base for horizontal flight in clouds.